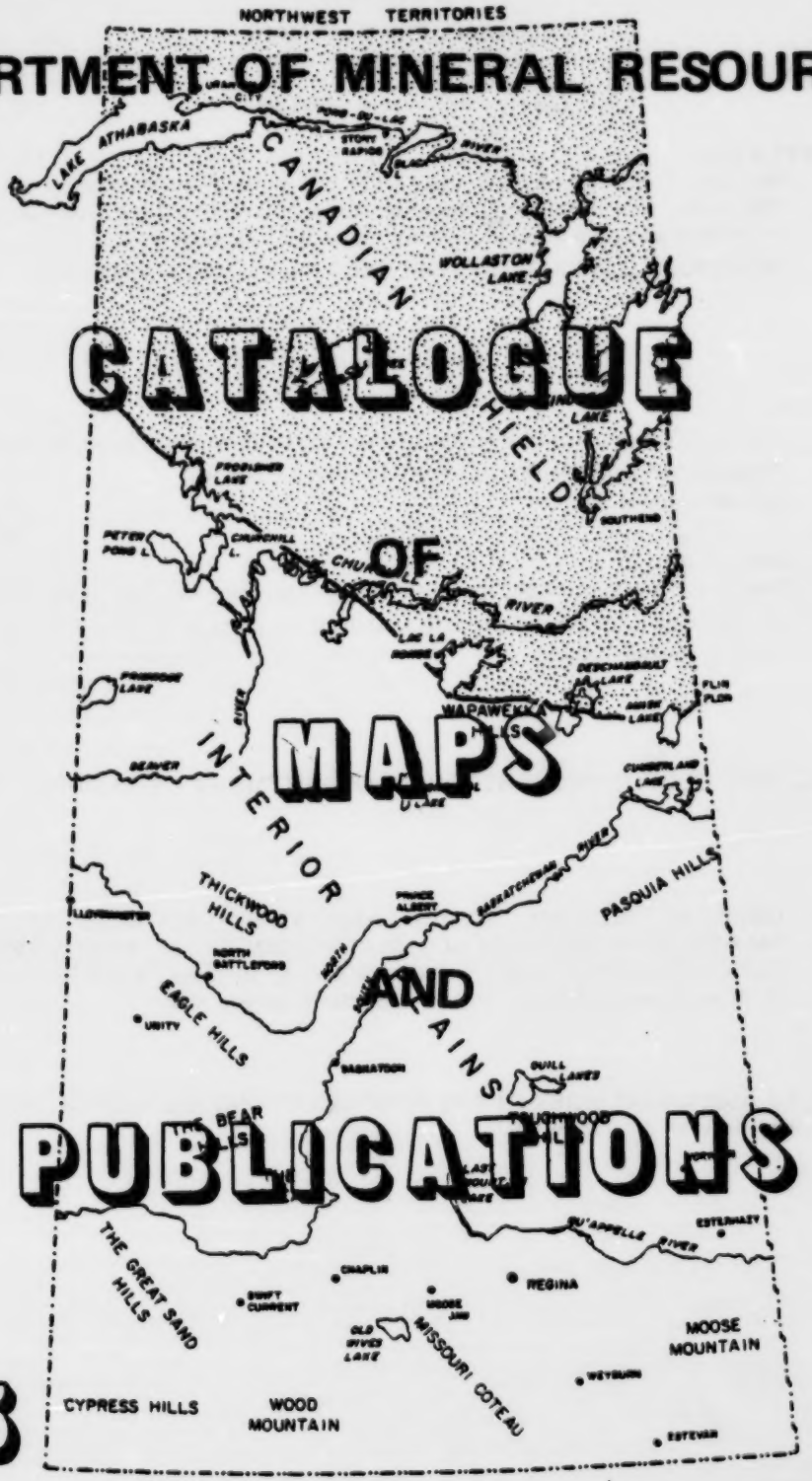
# PROVINCE OF SASKATCHEWAN

## DEPARTMENT OF MINERAL RESOURCES




# CATALOGUE OF MAPS AND PUBLICATIONS

## 1975

**Minister**

**Hon. ED WHELAN**

**Deputy Minister**

**J. G. WOTHERSPOON**

## ADDENDA

### REGIONAL CONTOUR MAPS

**$5.00 each**

**Scale: 1 inch=1 mile (1:63,360)**

**SWIFT CURRENT AREA**

Map area: Townships 15-19, Ranges 14-19, West of the Third Meridian.
The contours on this map are based on well control only and are drawn at 10-foot intervals in the pool areas and at 50-foot intervals outside of the pool areas.

E-264 STRUCTURE CONTOURS ON THE LOWER VANGUARD FORMATION

W. I. White

**Scale: 1 inch=2 miles (1:126,720)**

**TRAMPING LAKE**

Map area: Townships 33-43; Range 14, West of the Third Meridian to the Alberta border.

T-14 STRUCTURE CONTOURS ON THE MANNVILLE GROUP
Contour Interval—50 feet

W. P. von Osinski

**BRIGHTSAND LAKE**

Map area: Townships 44-54; Range 15, West of the Third Meridian to the Alberta border.

T-15 STRUCTURE CONTOURS ON THE MANNVILLE GROUP
Contour Interval—50 feet

W. I. White, W. P. von Osinski

## GEOLOGICAL AND GEOPHYSICAL REPORTS—DEPARTMENT OF MINERAL RESOURCES

**Price: $2.00**

DMR. 165 **COMPUTER PLOTTED ISOPACH AND STRUCTURE MAPS OF THE LOWER PALAEOZOIC FORMATIONS IN SASKATCHEWAN**, by D. F. Paterson, 1975.
Silurian, Ordovician, Cambrian. Interlake Group, Stonewall, Stony Mountain, Red River, Winnipeg, Deadwood Formations. Precambrian Basement map.

INDEX TO ASSESSMENT WORK IN THE REINDEER MINING DISTRICT OF SASKATCHEWAN, compiled by M. A. Fuzesy, 1976.

This edition of the Catalogue of Maps and Publications contains a comprehensive list of the maps, reports, charts, regulations and statistical publications presently available from the Publications Office, Department of Mineral Resources, 1914 Hamilton Street, P.O. Box 5114, Regina, Saskatchewan. In most instances Precambrian maps and reports can also be obtained from any of the department field offices located at Creighton, La Ronge and Uranium City, Saskatchewan.

All new publications will be announced as they become available. If your name does not already appear on our mailing list and you wish to receive these announcements please communicate with the Publications Office and your name will be placed on our mailing list.

When ordering maps or publications from this catalogue please give all pertinent information such as: page number, map or report number, title of map or report, the area covered by map or report, scale of map, and where applicable the author's name. This will enable us to fill the order with the least possible delay.

Everything possible will be done to adhere to the price mentioned in this catalogue. It is the policy of this department to change prices only when necessary and these changes are usually timed to coincide with a new issue of the catalogue or supplement. In the case of mail orders, prepayment is desired. Postage stamps are not acceptable.

All maps will be folded unless otherwise requested. Should unfolded maps be requested and mailing tubes be required an additional charge of $ .75 per tube will be made. All postage, express and other mailing charges in excess of $ .50 will be added to the cost of the order.

It is not our intention at the present time to publish a complete new catalogue each year, however a supplement which will update this catalogue will be published annually and notification will go out to all concerned. This catalogue and subsequent supplements supersede all previous issues.

Regina, Saskatchewan,
Canada
December 15, 1975

Administrative Services Branch,
Dept. of Mineral Resources,
1914 Hamilton Street,
P.O. Box 5114,
Regina, Saskatchewan,
S4P 3P5

# TABLE OF CONTENTS


Page

GUIDES TO THE NATIONAL TOPOGRAPHIC SYSTEM
Figures 1, 2, 3, & 4 . . . . . 4, 5, 6, 7

ACTS AND REGULATIONS . . . . . 8

INDEX MAPS FOR DISPOSITION MAPS
Figures 5 & 6 . . . . . 9, 10

DISPOSITION AND OWNERSHIP INFORMATION . . . . . 11

STATISTICAL SERVICES:
Periodical Statistical Reports . . . . . 13
Statistical Yearbooks . . . . . 13
Geodata and Statistical Services . . . . . 13
1) Schedule of Wells . . . . . 13
2) Statistical Data for Oil and Gas Production . . . . . 13

PETROLEUM AND NATURAL GAS INFORMATION
Reports and Publications . . . . . 14
Index Map of 1:126,720 Maps drawn on the Township Grid System, Figure 7 . . . . . 15
Petroleum and Natural Gas Well Maps . . . . . 16
1) Regional Well Maps . . . . . 16
2) Well Penetration Maps . . . . . 17
3) Structure Test Hole Location Maps . . . . . 17
Index Map of Petroleum and Natural Gas Production and Disposition Areas–Figure 8 . . . . . 18
Index Map – Area I – Figure 9 . . . . . 19
Index Map – Area II – Figure 10 . . . . . 20
Index Map – Area III – Figure 11 . . . . . 21
Index Map – Area IV – Figure 12 . . . . . 22
Pool Area Structure Contour Maps . . . . . 23
Pool Index . . . . . 29

BASE MAPS
Index Map of 1:253,440 Maps drawn on the Township Grid System, Figure 13 . . . . . 34

REGIONAL CONTOUR MAPS . . . . . 37

REGIONAL CROSS SECTIONS . . . . . 40

GENERAL REGIONAL MAPS AND DIAGRAMS . . . . . 41

GEOLOGICAL MAPS . . . . . 43

GEOPHYSICAL MAPS:
Aeromagnetic–1 inch=½ mile . . . . . 46
–1 inch=1 mile . . . . . 47
–1 inch=4 miles . . . . . 56
Electromagnetic . . . . . 57
Seismic . . . . . 57
Gravity . . . . . 58
Magnetic . . . . . 58

MAPS AND REPORTS OF GEOPHYSICAL SURVEYS of disposition holders . . . . . 60

AIRBORNE GEOPHYSICAL INDEX . . . . . 61

CONDUCTIVITY ANOMALY LOCATIONS MAPS . . . . . 61

INDEX TO ASSESSMENT WORK . . . . . 62

REPORTS:
Index Map to Precambrian Geological Reports, Figure 14 ..... 63
Geological and Geophysical Reports (DMR) ..... 64
Summary Reports of Geological Investigations ..... 80
Reports of Investigation, Industrial Minerals Research Branch (RPI) ..... 82
Miscellaneous Reports ..... 83
Technical Reprints ..... 84

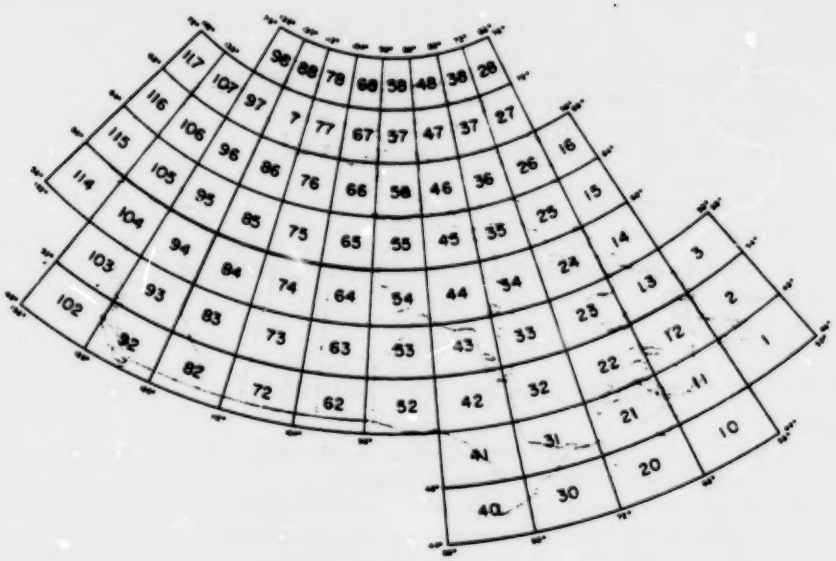
SASKATCHEWAN RESEARCH COUNCIL–GEOLOGY DIVISION
Reports (SRC) ..... 85
Circulars ..... 87
Maps ..... 88

SASKATCHEWAN GEOLOGICAL SOCIETY REPRINTS ..... 90

INDICES:
1) NATIONAL TOPOGRAPHIC INDEX–references to maps and reports by their NTS identification ..... 91
2) INDEX–to all departmental geological and geophysical reports, the reports of investigation of the Industrial Minerals Branch and the reports of the Saskatchewan Research Council ..... 97

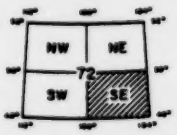
DEPARTMENTAL ORGANIZATION CHART, Figure 15 ..... 104

1. The basis of the system is a unit consisting of an area $4^{0}$ in latitude by $8^{0}$ in longitude.

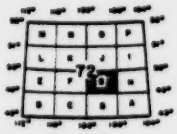



2. 1:1,000,000 and one inch to sixteen miles (1:1,013,760) maps.
The unit area in "1." would have map sheets printed at these scales – the map number takes this form ..... 72

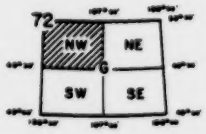
3. 1:500,000 and one inch to eight miles (1:506,880) maps.
Each of the map sheets in "2." is subdivided into four sheets numbered: S.E., S.W., N.W., N.E., whose number takes this form ..... 72-S.E.



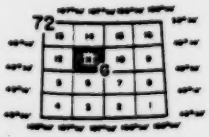

4. 1:250,000 and one inch to four miles (1:253,440) maps.
Each of the map sheets in "2." is subdivided into sixteen sheets lettered from A to P, whose number takes this form ..... 72-G




5. 1:100,000, 1:125,000 and one inch to two miles (1:126,720) maps.
Each of the map sheets in "4." is subdivided into four sheets numbered: S.E., S.W., N.W., N.E., whose number takes this form ..... 72-G-N.W.




6. 1:50,000 and one inch to one mile (1:63,360) maps.
Each of the map sheets in "4." is subdivided into sixteen sheets numbered from 1 to 16, whose number takes this form ..... 72-G-11




7. One inch to one-half mile (1:31,680) maps (MINERAL DISPOSITION MAPS).
Each of the map sheets in "6." is subdivided into four sheets numbered: S.E., S.W., N.W., N.E., whose number takes this form ..... 72-G-11-N.W.

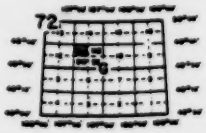



**Figure 1 – NATIONAL TOPOGRAPHIC SYSTEM OF NUMBERING MAP SHEETS**

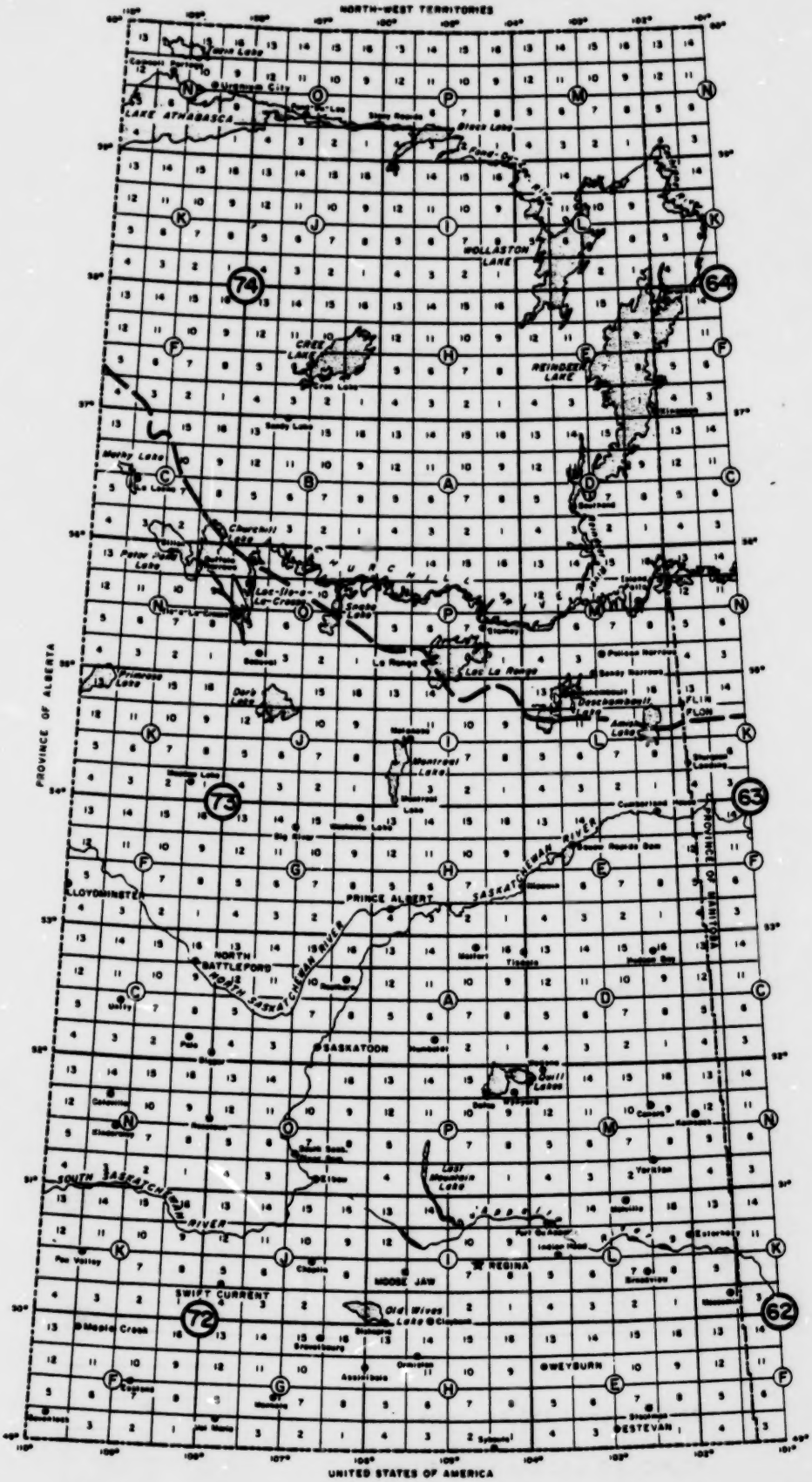



**Figure 2 — NATIONAL TOPOGRAPHIC SYSTEM OF MAP SHEET NUMBERS IN SASKATCHEWAN**

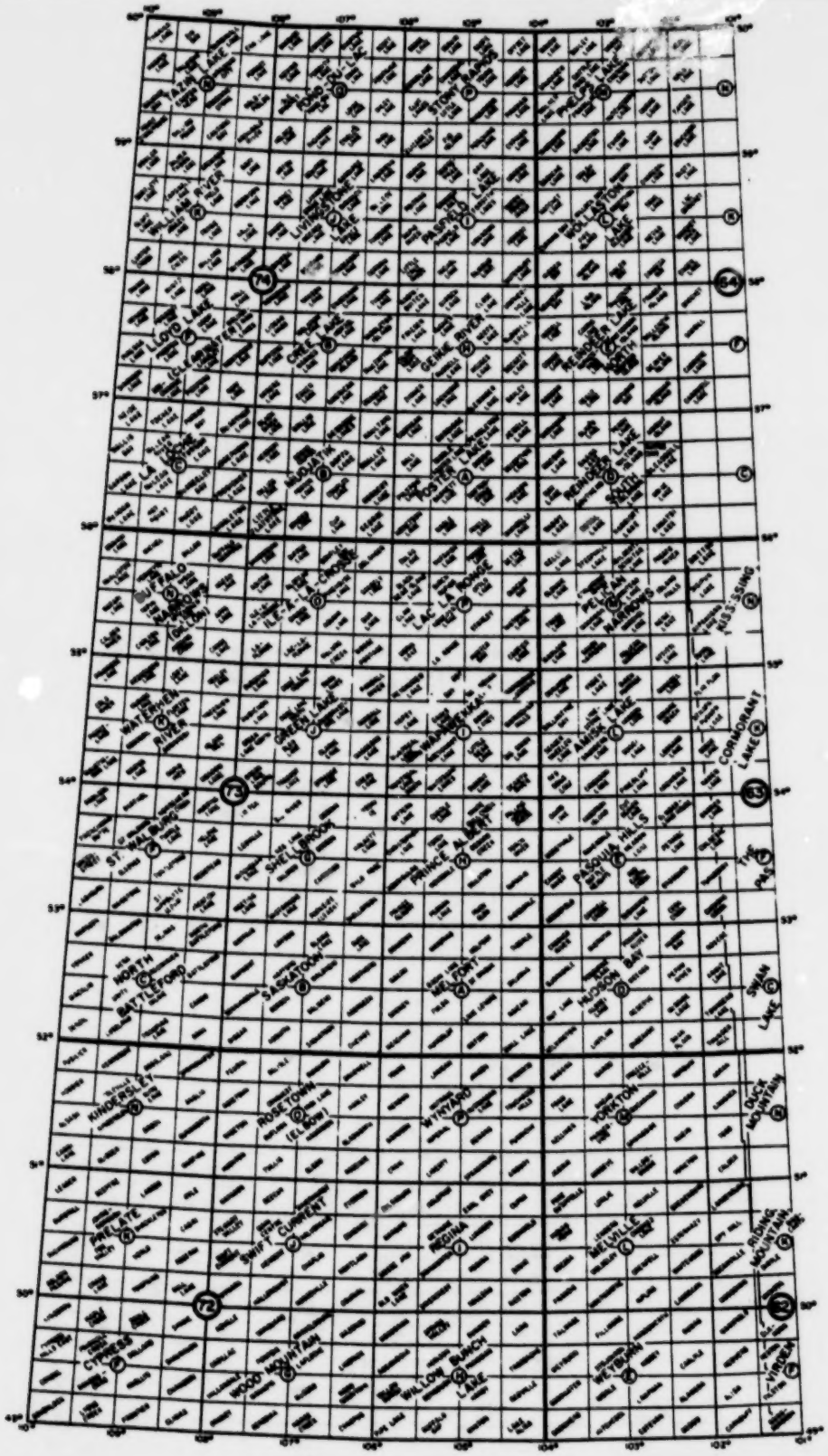



**Figure 3 – INDEX MAP OF MAP TITLES DRAWN ON THE NATIONAL TOPOGRAPHIC SYSTEM**

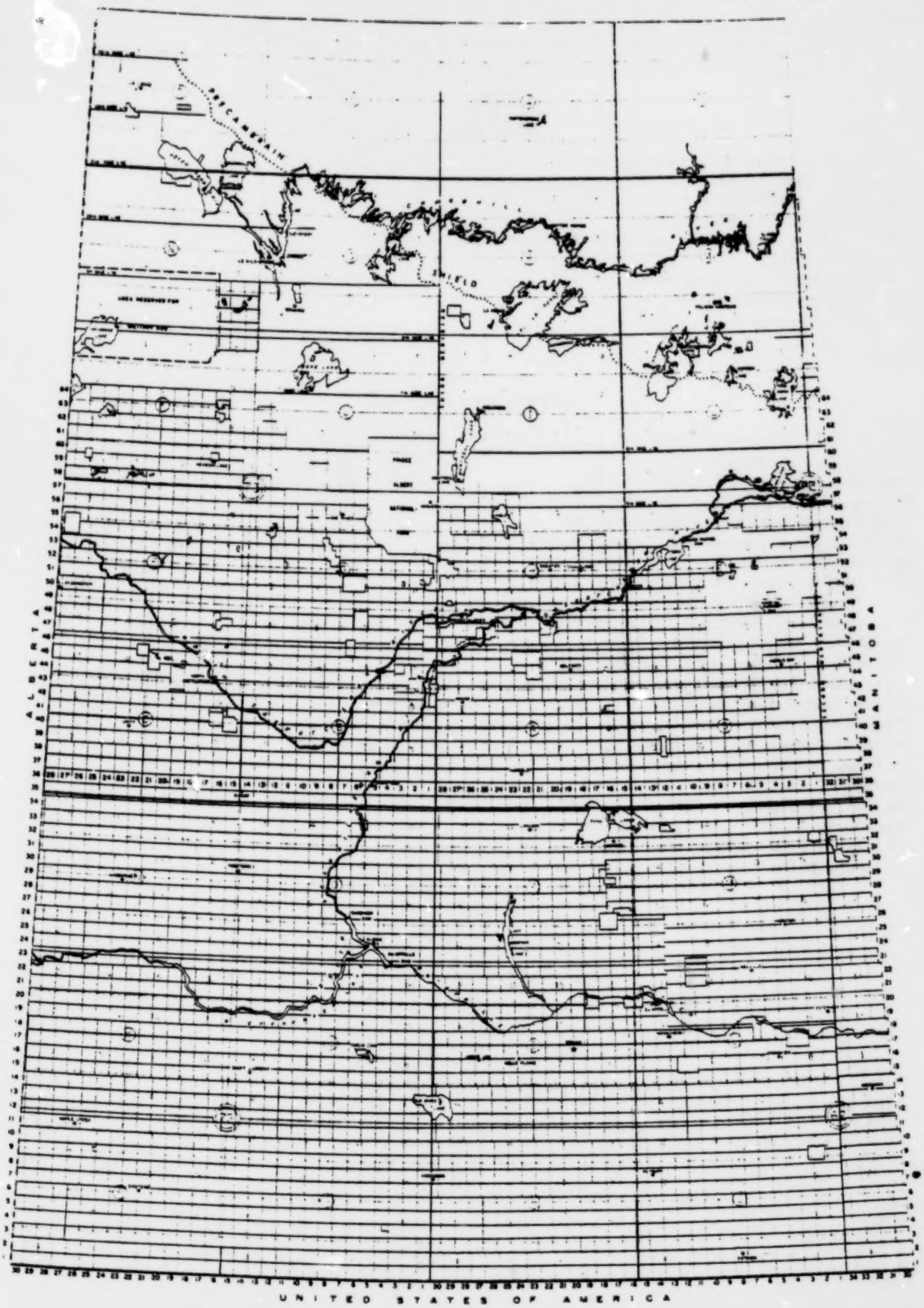



**Figure 4 – RELATIONSHIP OF THE NATIONAL TOPOGRAPHIC SYSTEM GRID TO THE TOWNSHIP GRID**

## ACTS

*(No charge)*

The Department of Mineral Resources Act
The Mineral Resources Act
The Mineral Taxation Act
The Oil and Gas Conservation Act
The Oil and Gas Conservation, Stabilization and Development Act, 1973
The Pipe Lines Act
The Public Utilities Companies Act
The Road Allowance Crown Oil Act
The Sand and Gravel Act

## REGULATIONS

*(No charge)*

Alkali Mining Regulations
The Coal Mining Regulations, 1957
The Delayed Payment Charge Regulations, 1970
The Geophysical Exploration Regulations, 1964
The Helium and Associated Gases Regulations, 1964
The Mineral Disposition Regulations, 1961
The Oil and Gas Conservation Regulations, 1969
(includes The Oil and Gas Conservation Act)
The Oil and Gas Exploration, Development and Production Incentive Regulations, 1974
The Oil Shale Regulations, 1964
The Petroleum and Natural Gas Regulations, 1969
(includes The Mineral Resources Act)
The Pipe Lines Regulations, 1955
The Pollution Prevention Regulations for the Mineral Industry, 1970
The Potash Conservation Regulations, 1969
The Potash Proration Fee Regulations, 1972
The Potash Reserve Tax Regulations, 1974
The Quarrying Regulations, 1957
Regulations under The Mineral Taxation Act
The Subsurface Mineral Regulations, 1960
(includes The Mineral Resources Act)

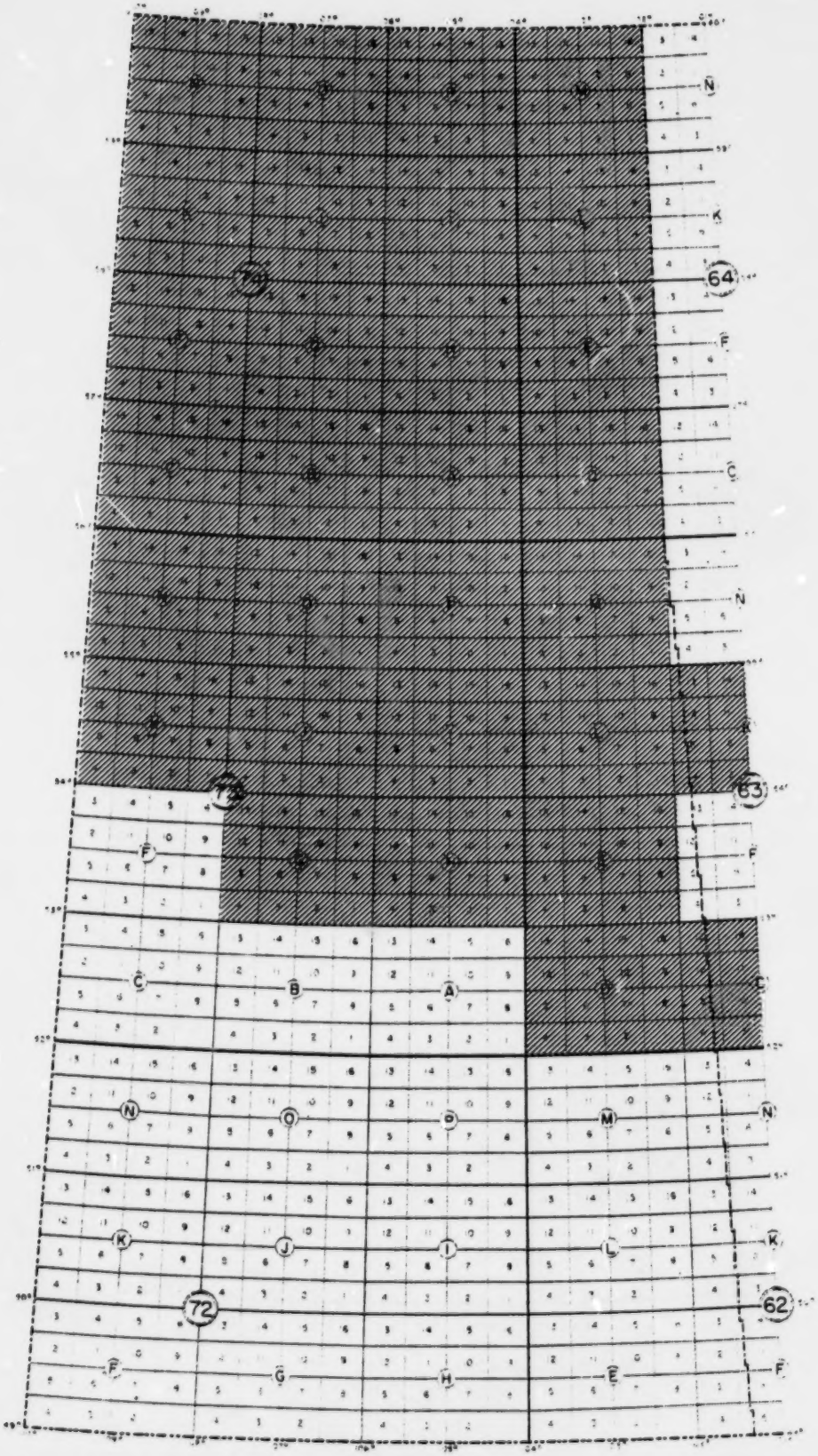



**Figure 5 — INDEX MAP OF 1:250,000 PRECAMBRIAN MINERAL DISPOSITION MAPS**
Shaded areas indicate maps available.

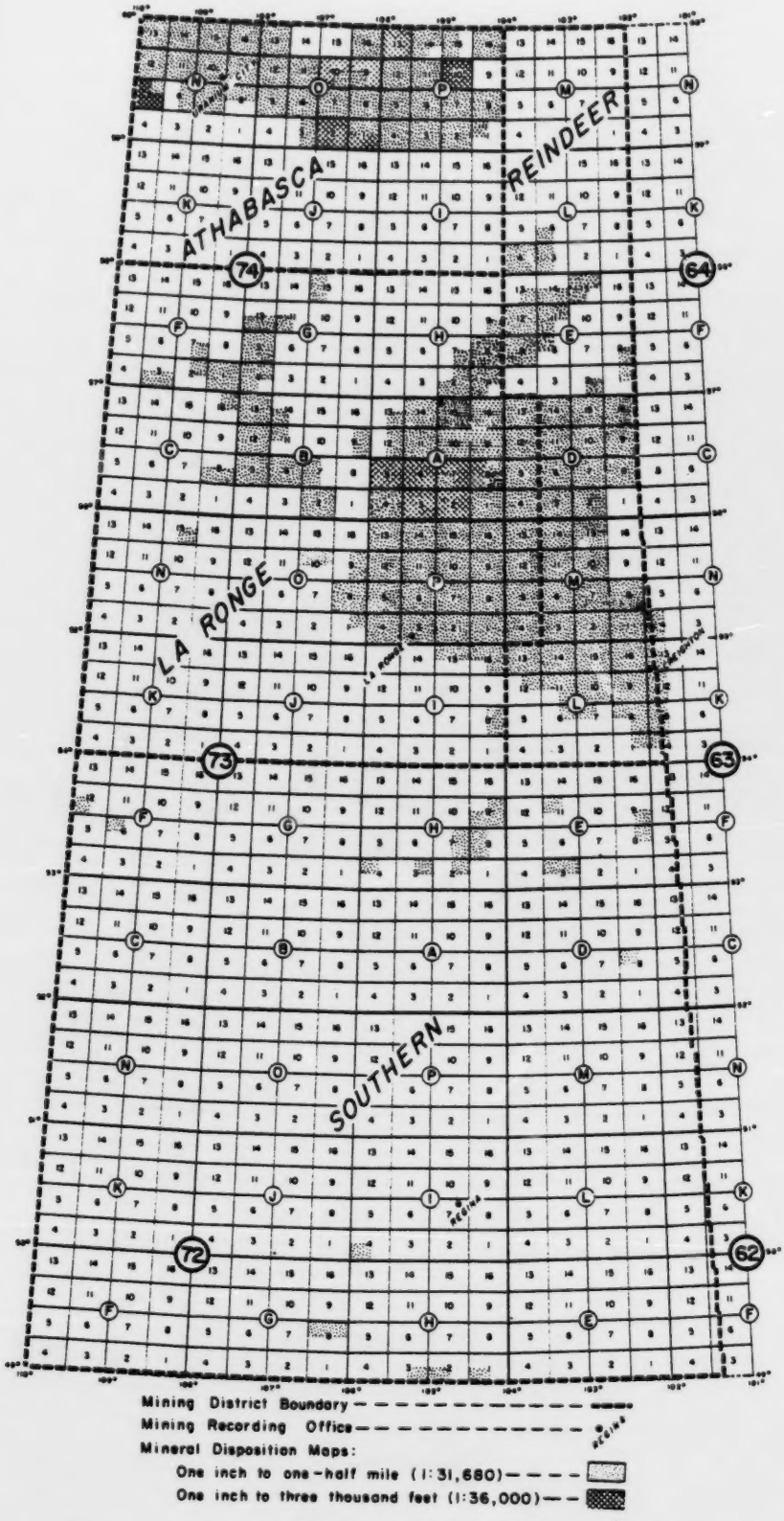



**Figure 6 – INDEX MAP OF MINERAL DISPOSITION MAPS AND MINING DISTRICTS**

# DISPOSITION AND OWNERSHIP INFORMATION

*(Latest revisions are supplied)*

## DISPOSITION MAPS OF CROWN MINERAL LANDS

| Map No. | Description | Price |
|---|---|---|
| D-240 | **HELIUM DISPOSITION MAP**<br>Scale: 1 inch=12 miles (1:760,320) | $1.00 |
| D-309 | **PETROLEUM AND NATURAL GAS DISPOSITION MAP**<br>Scale: 1 inch=12 miles (1:760,320) | $2.50 |
| D-359 | **PRECAMBRIAN CROWN RESERVATION MAP**<br>Scale: 1 inch=12 miles (1:760,320) | $1.00 |
| S-33 | **SUBSURFACE MINERALS DISPOSITION MAP**<br>Scale: 1 inch=8 miles (1:506,880)<br>Manitoba to Alberta borders 50°00′ to 53°00′ N. Latitude, approximately Townships 12 to 46.<br>Shows areas held under potash, salt magnesium, etc., permits and leases, and exploration wells drilled (excluding petroleum wells). | $1.00 |

**PRECAMBRIAN MINERAL DISPOSITION MAPS** — per map $1.00

Scale: 1:250,000.

*(See Figure 5 for available coverage; see paragraph 4 of Figure 1 for map area number).*

Maps are available for all Precambrian areas. These maps show permits, claim blocks, and groups of mineral claims where such groups consist of three or more claims.

**MINERAL DISPOSITION MAPS** — per map $ .50

Scales: 1:31,680 and 1:36,000.

*(See Figure 6 for available coverage; see paragraph 7 of Figure 1 for map area number).*

Maps are available for most staked areas in the Precambrian area that were staked under The Mineral Disposition Regulations, 1961.

N.B. Most of these maps are also available on request as outline maps without dispositions marked.

### COAL DISPOSITION MAPS

Scale: 1 inch=4 miles (1:253,440)

These maps depict coal rights which are freehold, Crown coal rights which are under disposition and Crown coal rights which are available for disposition . . . . . $1.00 each

D-384 **WILLOW BUNCH–ESTEVAN** Townships 1 - 10; Manitoba border to the Third Meridian.

D-385 **SHAUNAVON–WOOD MOUNTAIN** Townships 1 - 10; Third Meridian to the Alberta border.

### MINERAL LAND OWNERSHIP

The department is organized to identify ownership of minerals insofar as to distinguish between Crown and privately owned (Freehold) mineral land. Assistance in the identification of such ownership, together with complete information on Crown dispositions (leases, permits, reservations, etc.) is available in the following forms:

1) **TOWNSHIP PLATS,** Scale: 1 inch=½ mile (1:31,680) — per township $2.00

(Specify type of plat: **Petroleum and Natural Gas,** or **Industrial Minerals**). Information is transcribed to these diagrams from our land registers indentifying the following for each township:

(a) Crown mineral lands under disposition;
(b) Company or person to whom disposition granted;
(c) Crown minerals lands undisposed.

**Note: Mineral Lands not owned by the Crown are designated FH (Freehold); for specific ownership of these parcels contact the appropriate Land Titles Office.**

2) **TOWNSHIP PLATS** showing Crown Mineral Lands undisposed only.
Scale: 1 inch=1 mile (1:63,360) per plat $ .25)

3) **RECORDS** showing disposition on Crown Mineral Lands in surveyed areas are open for inspection for those who require a record of day by day changes. There is no charge for this information which includes the following:

(a) Category and disposition number;
(b) Effective date and term of disposition;
(c) Date and number of registration;
(d) Company or person to whom disposition granted;
(e) Land description and acreage.

# STATISTICAL SERVICES

## PERIODICAL STATISTICAL REPORTS

Price per year*

**WEEKLY DRILLING AND LAND REPORT** ..... $24.00

Lists licences issued, wells drilled, completed and brought on production. Changes in Crown land disposition are listed as they occur.

**MONTHLY OIL AND GAS REPORT** ..... $20.00

Production and disposition of oil, gas, water and gas plant products are tabulated. Monthly summaries of drilling activity and Crown land dispositions are included.

**MONTHLY POTASH REPORT** ..... $36.00

Production and sales of potash, on a monthly and cumulative basis and inventories are tabulated by potash grade. Sales, in terms of tons of $K_2O$, are listed by grade and destination. Comparative production, sales and inventory statistics for the current year and the previous year are included.

**SASKATCHEWAN MINERAL SPOTLIGHT** (Monthly) ..... No charge

*(Mailing list maintained)*

Summarizes mineral production and disposition, value of production and Crown land disposition for all minerals. Comparisons to previous year are shown. Recent publications and events concerning the mineral industry are identified and summarized.

## STATISTICAL YEARBOOKS

Copies of Statistical Yearbooks dating from 1955 to 1972 are in limited supply and are available for consultation at the Publications Office. The two most recent Yearbooks are available from the Publications Office; the latest available edition will be supplied unless a specific year is requested.

**MINERAL STATISTICAL YEARBOOK, 1973** ..... $ 5.00
**MINERAL STATISTICAL YEARBOOK, 1974** ..... $ 5.00

## GEODATA AND STATISTICAL SERVICES

### SCHEDULE OF WELLS

The Department of Mineral Resources has placed its entire series of oil and gas well schedules on microfiche and microfilm cassettes. Basic geological and engineering data on every well drilled in Saskatchewan from 1874 to the end of 1973 is available in two forms: as 38 microfiche (207 frames or pages) or as two microfilm cassettes. Microfilm cassettes may be purchased either comicmode (laterally, side by side) or cinemode (vertically, end to end). Reels may be substituted for cassettes.

This historical series, 1874-1973 SCHEDULE OF WELLS, may be purchased from the Publications Office for $150.00; please specify form—microfiche, cinemode cassette or reel, comicmode cassette or reel. Annual supplements on microfilm (price $10.00) will be prepared; these supplements will be incorporated into the historical series at five year intervals.

Further details on the SCHEDULE OF WELLS, may be obtained from the Geodata Statistics and Research Branch of the Department of Mineral Resources.

### STATISTICAL DATA FOR OIL AND GAS PRODUCTION

Historical production data from oil and gas wells is available on microfiche or microfilm or by retrieval of specific data from computerized magnetic files. Details of the several options available through the Geodata Statistics and Research Branch are set out in a brochure "Geodata and Statistical Services".

* "Year" refers to one complete year from date of request for subscription.

# PETROLEUM AND NATURAL GAS INFORMATION

## REPORTS AND PUBLICATIONS

**RESERVOIR PERFORMANCE CHARTS** (latest set) ..... $30.00
Contains graphs of data from pools and units such as: gas-oil and water-oil ratios, pressure data, production and injection histories and number of producing wells.

**RESERVOIR ANNUAL** (latest edition) ..... $20.00
Contains oil and gas reserves data, development and producing data, information concerning enhanced recovery projects and related reservoir information.

**SASKATCHEWAN OIL AND GAS UNITS** (per set) ..... $30.00
Contains information regarding statutory and Voluntary units such as: unit operator, effective date of unit, working interest owner and percentage ownership and a map of the unit area.
A copy of the Unit Agreement for each statutory and Voluntary unit has been filed with the department and is available for consultation in the Petroleum and Natural Gas Branch of the department during office hours. If copies are required contact the Unit Operator.

**OIL AND GAS ANALYSES, 1957** ..... $ 2.00
Analyses of crude oil, indicating the origin, characteristics and results of distillation tests. Analyses of natural gas, indicating origin and composition of samples from gas wells and samples of casing-head gas from oil wells.

**OIL ANALYSES SUPPLEMENT, 1964** ..... $ 2.50
Contains additional oil analyses that have become available since the publication of Oil and Gas Analyses, 1957.

**GAS ANALYSES SUPPLEMENT, 1964** ..... $ 2.50
Contains additional gas analyses that have become available since the publication of Oil and Gas Analyses, 1957.

***GEOLOGY AND PRODUCTION HISTORY OF THE BAKKEN FORMATION IN THE ROCANVILLE AREA, SOUTHEASTERN SASKATCHEWAN**, by W.P.C. von Osinski, 1970.

**GEOLOGY AND PRODUCTION HISTORY OF THE ROSEBANK AREA, SOUTHEASTERN SASKATCHEWAN**, by W.P.C. von Osinski, 1971. Includes the following pools: Ingoldsby Frobisher-Alida Beds, Silverton Frobisher Beds, Oakley Frobisher Beds, Rossbank Alida Beds, Rosebank South Alida Beds, Storthoaks Alida-Tilston Beds and Nottingham Alida Beds ..... $ 1.00

**GEOLOGY AND PRODUCTION HISTORY OF THE HUME FROBISHER BEDS OIL POOL AND THE HUME MIDALE BEDS OIL POOL IN THE HUME AREA,**
by W. P. C. von Osinski, 1974 ..... $ 1.00

*Out of print—may be consulted at the Publications Office.

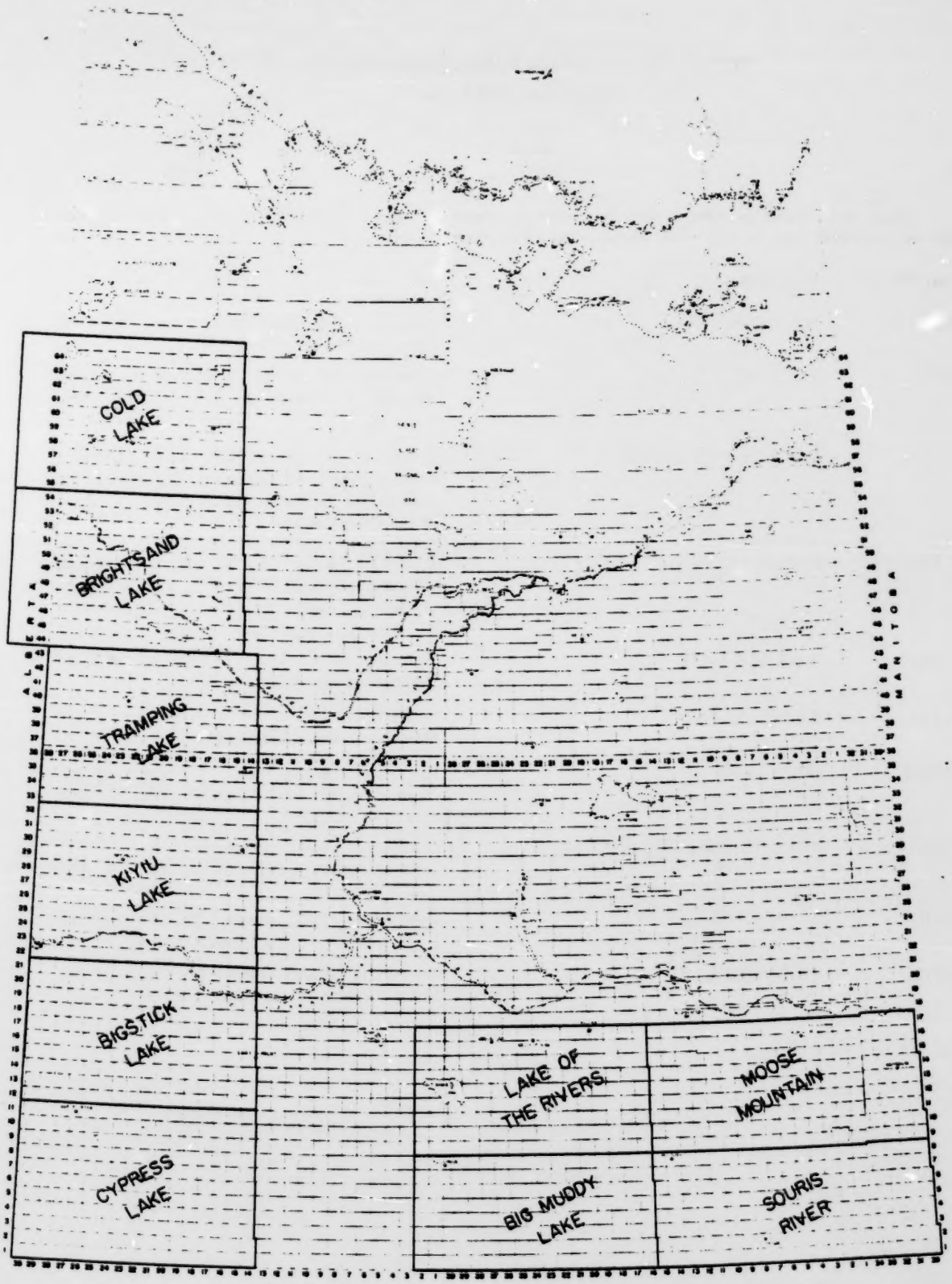



**Figure 7 — INDEX MAP OF 1:126,720 MAPS DRAWN ON THE TOWNSHIP GRID SYSTEM**

## PETROLEUM AND NATURAL GAS WELL MAPS

### REGIONAL WELL MAPS

Scale: 1 inch=2 miles (1:126,720)
$5.00 each

*(See Figure 7)*

These maps show townships, sections, major topographic features, significant towns, Indian Reserves, defined pools and fields and all wells. These maps are up-dated monthly.

| Map No. | Map Title | Map Area |
|---|---|---|
| W-210 | SOURIS RIVER | Townships 1-8; Manitoba border to Range 14, West of the Second Meridian. |
| W-211 | BIG MUDDY LAKE | Townships 1-8; Range 15, West of the Second Meridian to Range 2, West of the Third Meridian. |
| W-212 | LAKE OF THE RIVERS | Township 9 to 50°30' North Latitude (includes part of Township 18); Range 15, West of the Second Meridian to Range 2, West of the Third Meridian. |
| W-213 | MOOSE MOUNTAIN | Township 9 to 50°30' North Latitude (includes part of Township 18); Manitoba border to Range 14, West of the Second Meridian. |
| W-232 | BIGSTICK LAKE | Township 12-21; Range 14, West of the Third Meridian to the Alberta border. |
| W-233 | CYPRESS LAKE | Townships 1-11; Range 14, West of the Third Meridian to the Alberta border. |
| *W-313 | COLD LAKE | Townships 55-65; Range 15, West of the Third Meridian to Range 3, West of the Fourth Meridian. |
| * W-314 | BRIGHTSAND LAKE | Townships 44-54; Range 15, West of the Third Meridian to Range 3, West of the Fourth Meridian. |
| W-318 | KIYIU LAKE | Townships 22-32; Range 14, West of the Third Meridian to the Alberta border. |
| W-319 | TRAMPING LAKE | Townships 33-43; Range 14, West of the Third Meridian to the Alberta border. |

* For lands lying West of the Fourth Meridian (in Alberta) on maps W-313 and W-314 the wells are revised periodically, not monthly. The wells are revised monthly on these maps for lands lying West of the Third Meridian.

## WELL PENETRATION MAPS

Scale: 1 inch=4 miles (1:253,440)

$5.00 each

*(See Figure 13)*

These maps show the location of all wildcat and field wells in Saskatchewan. In pools and fields and in wildcat areas where drilling is congested only the deeper wells are shown. Symbols indicate the geological system (e.g. Jurassic, Mississippian) in which these wells are bottomed. Revised semi-annually.

The areas covered by these maps are the same as those described for the Base Maps on page 35 of this catalogue.

| Map No. | Map Title |
|---|---|
| W-320 | REGINA |
| W-321 | SWIFT CURRENT |
| W-322 | YORKTON |
| W-323 | SASKATOON |
| W-324 | PRINCE ALBERT |
| W-325 | NORTH BATTLEFORD |
| W-326 | BUFFALO NARROWS |

## STRUCTURE TEST HOLE LOCATION MAPS

Scale: 1 inch=4 miles (1:253,440)

$2.00 each

*(See Figure 13)*

These maps show townships, sections, major water features, major towns, Indian Reserves and structure test hole locations. Revised as information becomes available.

The areas covered by these maps are the same as those described for the Base Maps on page 35 of this catalogue.

| | |
|---|---|
| W-330 | REGINA |
| W-331 | SWIFT CURRENT |
| W-332 | YORKTON |
| W-333 | SASKATOON |
| W-334 | PRINCE ALBERT |
| W-335 | NORTH BATTLEFORD |
| W-336 | BUFFALO NARROWS |

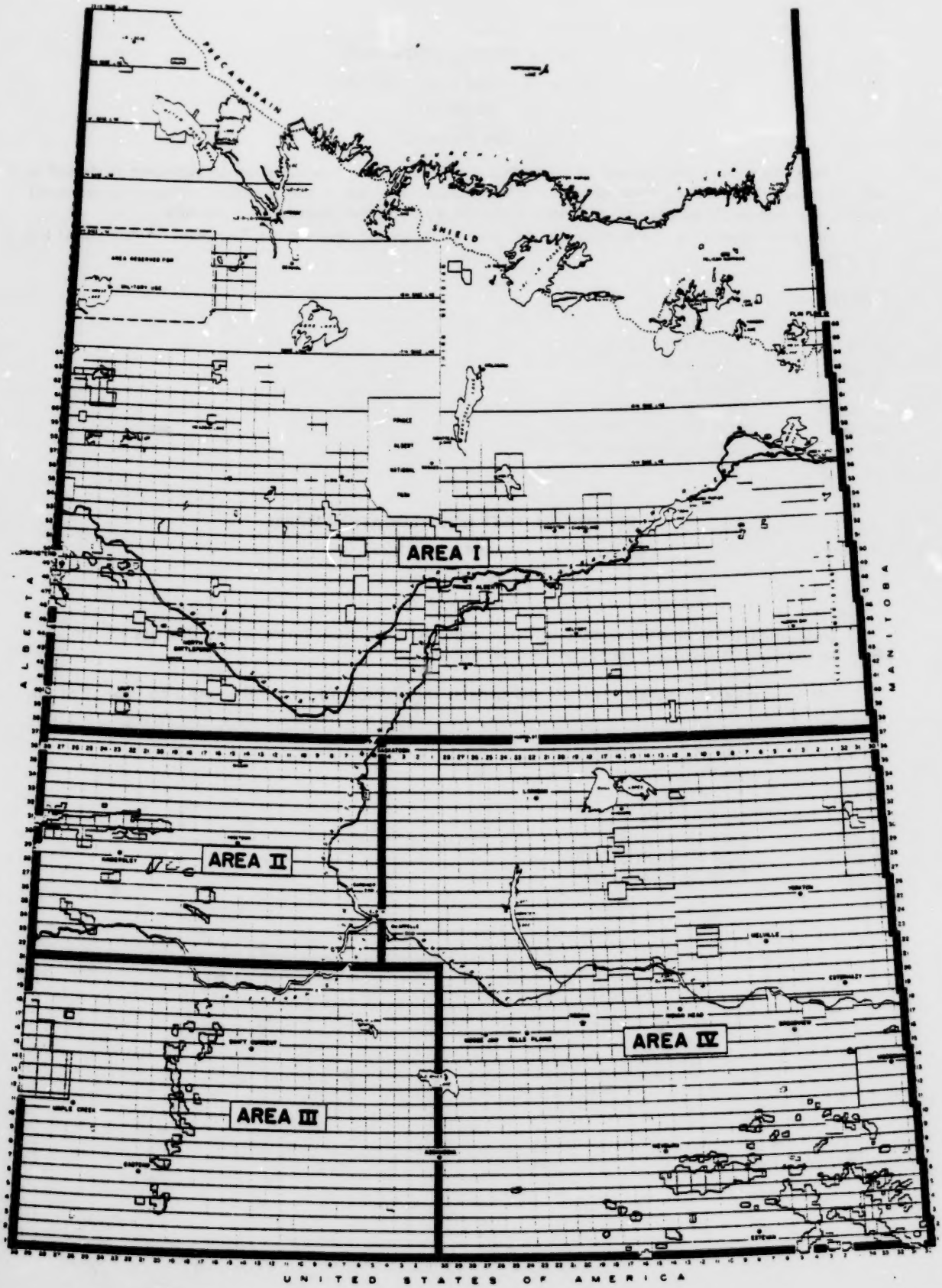



**Figure 8 – PETROLEUM AND NATURAL GAS PRODUCTION AND DISPOSITION AREAS**

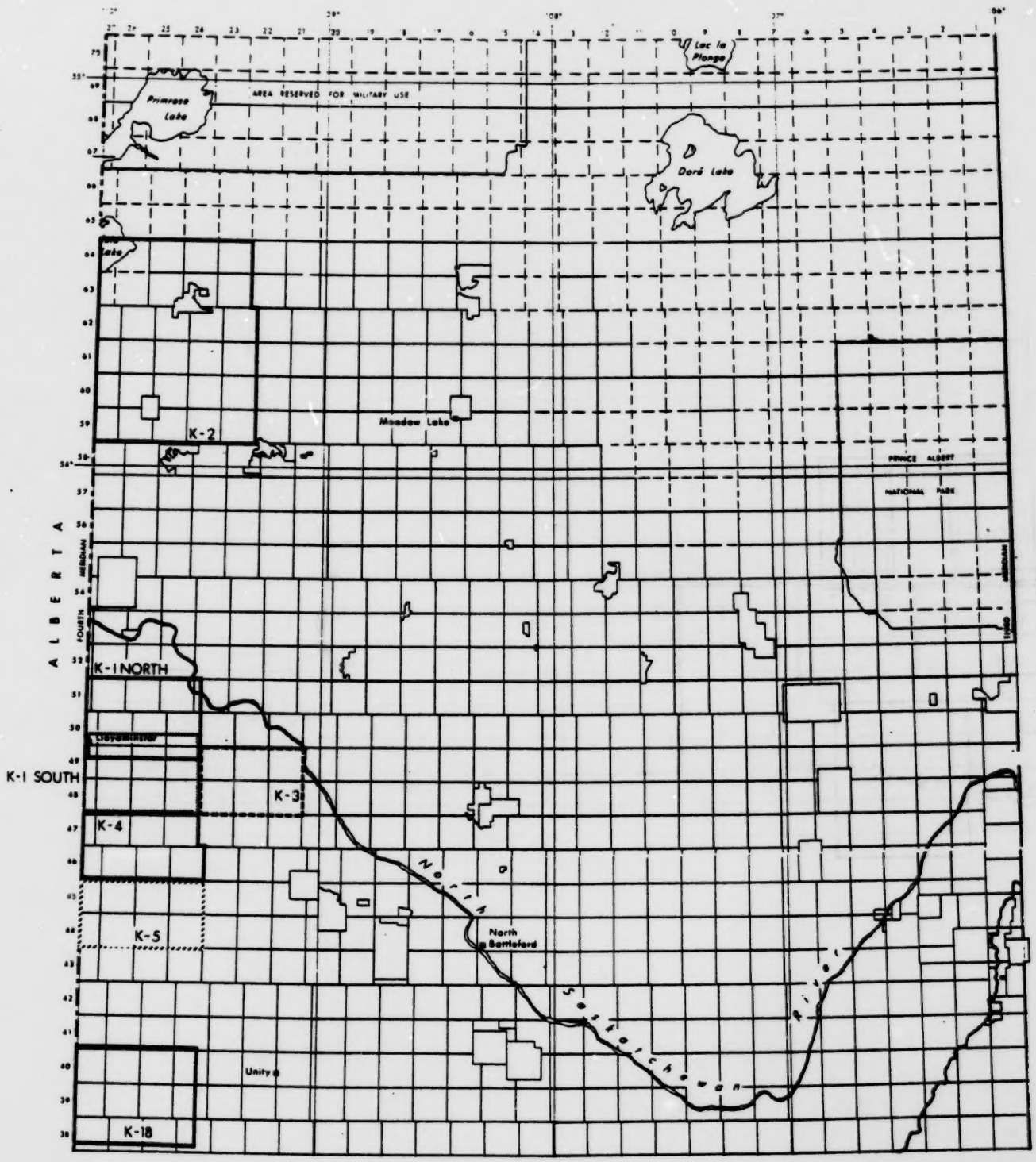



**Figure 9 – INDEX MAP OF "K" SERIES MAPS AVAILABLE IN PETROLEUM AND NATURAL GAS PRODUCTION AND DISPOSITION AREA I**

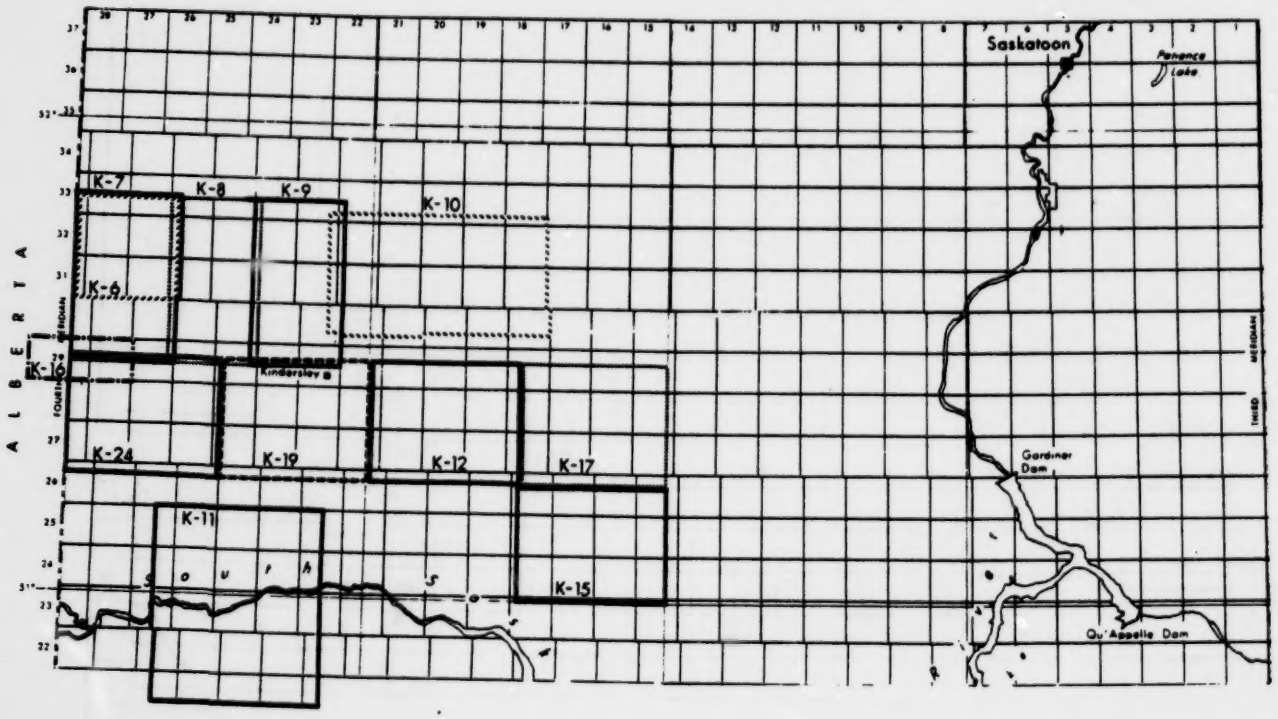



**Figure 10 – INDEX MAP OF "K" SERIES MAPS AVAILABLE IN PETROLEUM AND NATURAL GAS PRODUCTION AND DISPOSITION AREA II**

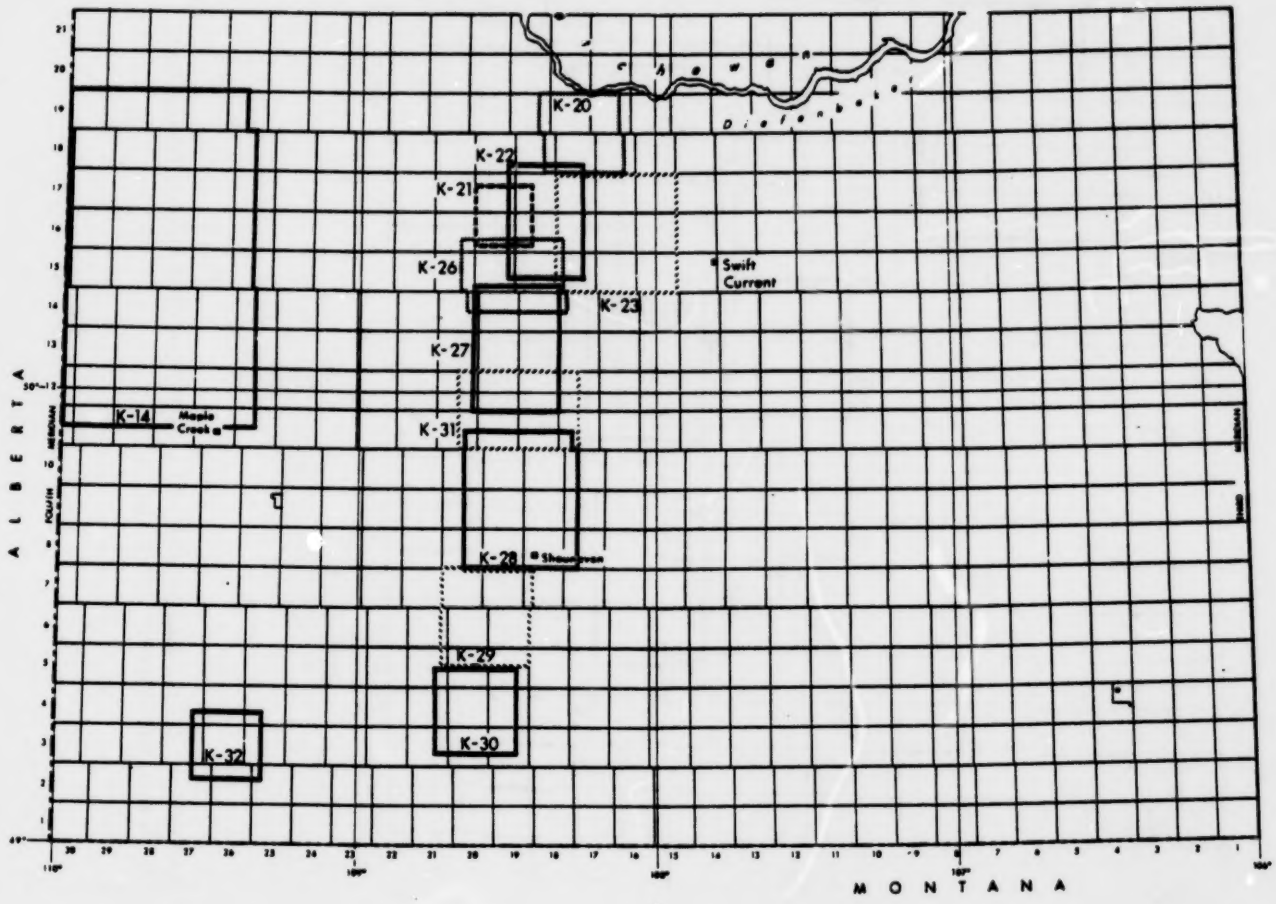



**Figure 11 – INDEX MAP OF "K" SERIES MAPS AVAILABLE IN PETROLEUM AND NATURAL GAS PRODUCTION AND DISPOSITION AREA III**

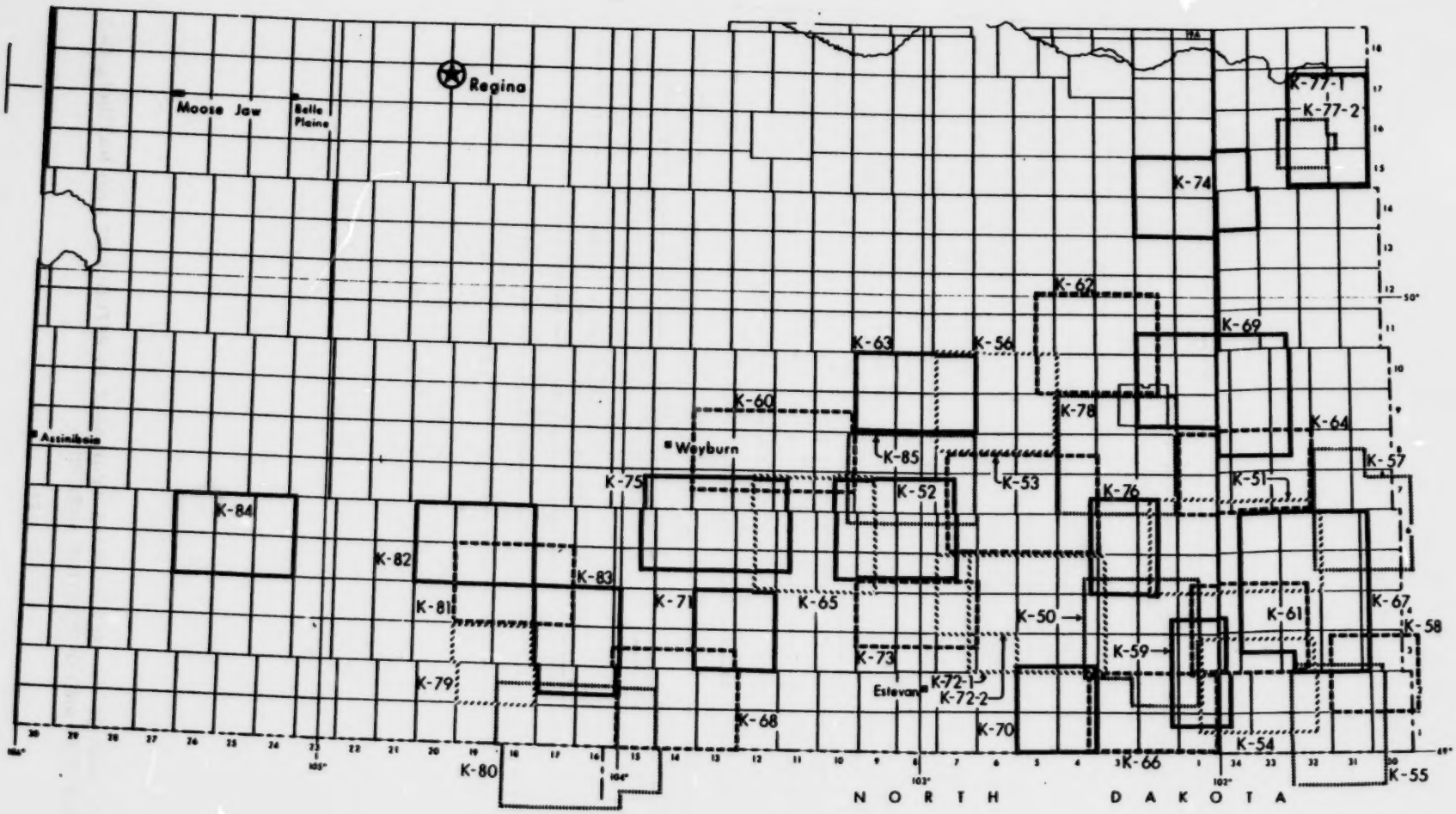



**Figure 12 – INDEX MAP OF "K" SERIES MAPS AVAILABLE IN PETROLEUM AND NATURAL GAS PRODUCTION AND DISPOSITION AREA IV**

## POOL AREA STRUCTURE CONTOUR MAPS

(For area boundaries see Figure 8)

These maps are updated as information becomes available and because of the necessity for frequent revision, are sold as prints of working drawings only. The quality of the prints available is limited by the fact that the working drawings are prepared in pencil.

Unless otherwise indicated all maps are on a scale of 1 inch=½ mile (1:31,680) and are contoured on a ten-foot interval. The specific value contoured is indicated at each control point.

$5.00 each

**Note: The Map No. is made up of two numbers in most cases. The first number (e.g. K-1) indicates the sheet on which the map is drawn. The second number (e.g. K-1-2) is used to indicate the horizon mapped on that sheet. The area covered by each sheet (e.g. K-1-1 or K-1-2) would be the same, and thus the pools on these map sheets would be the same.**

### AREA I

*(For map areas see Figure 9)*

| Map No. | Horizon Mapped | Pools on sheet |
|---|---|---|
| K-1-1 | MANNVILLE | Aberfeldy Sparky Sand |
| K-1-2 | SPARKY | Big Gully McLaren Sand |
| | | Big Gully Waseca Sand |
| | | Dulwich Sparky Sand |
| | | Dulwich North Sparky Sand |
| | | Furness Sparky Sand |
| | | Landrose McLaren Sand |
| | | Landrose Waseca Sand |
| | | Lloydminster Colony Sand Gas |
| | | Northminster Sparky Sand |
| | | Silverdale Sparky Sand |
| | | Tangleflags G.P. Sand |
| | | Tangleflags Lloydminster Sand |
| | | Tangleflags Sparky Sand |
| K-2 | MANNVILLE | Beacon Hill Blairmore Sand Gas |
| K-3 | MANNVILLE | Dee Valley Waseca Sand |
| | | Golden Lake North Sparky Sand |
| | | Golden Lake North Waseca Sand |
| | | Golden Lake South Sparky Sand |
| | | Golden Lake South Waseca Sand |
| | | Gully Lake Waseca Sand |
| | | Lashburn Waseca Sand |
| | | Low Lake Waseca Sand |
| | | Forest Bank Waseca Sand |
| | | Pikes Peak Waseca Sand |
| | | Standard Hill Waseca Sand |
| K-4-1 | MANNVILLE | Epping G.P. Sand |
| K-4-2 | SPARKY | Epping Sparky Sand |
| | | Lone Rock Sparky Sand |
| K-5 | MANNVILLE | Marsden Sparky Sand |
| K-18 | SPARKY (1"=1 mile) | Eyehill Cummings Sand |

### AREA II

*(For map areas see Figure 10)*

| | | |
|---|---|---|
| K-6-1 | BASAL BLAIRMORE | Fusilier Bakken Sand |
| K-6-2 | BAKKEN | Hoosier Bakken Sand |

| Map No. | Horizon Mapped | Pools on Sheet |
|---|---|---|
| K-6-3 | PRE-CRETACEOUS EROSION SURFACE | Loverna Detrital<br>North Hoosier Bakken Sand<br>North Hoosier Basal Blairmore Sand<br>West Part of Hoosier Viking Gas |
| K-7 | VIKING | Fusilier Bakken Sand<br>Hoosier Bakken Sand<br>Loverna Detrital<br>Milton Viking Sand Gas<br>North Hoosier Bakken Sand<br>North Hoosier Basal Blairmore<br>North Hoosier Basal Blairmore Sand<br>West Part of Hoosier Viking Gas |
| K-8 | VIKING | West Part of Coleville-Smiley Viking Gas<br>East Part of Hoosier Viking Gas<br>Smiley–Dewar Viking<br>Whiteside Victoria Sand Gas<br>Whiteside Viking Sand |
| K-9-1<br>K-9-2 | VIKING<br>BAKKEN | Buffalo Coulee Bakken Sand<br>Coleville Bakken Sand<br>East Part of Coleville–Smiley Viking Gas<br>Lucky Hills Viking<br>West Part of Dodsland North Viking Gas<br>West Part of Eureka Viking |
| K-10 | VIKING | Avon Hill Viking<br>Dodsland North Viking Gas<br>Dodsland Viking Sand<br>East Part of Eureka Viking<br>East Part of Lucky Hills Viking |
| K-11 | VIKING<br>(1"=1 mile) | Bayhurst Viking Gas<br>Bayhurst West Viking Gas |
| K-12 | VIKING<br>(1"=1 mile) | Brock Viking Sand Gas<br>Brock East Viking Gas |
| K-15 | VIKING<br>(1"=1 mile) | Plato Viking<br>Greenan Viking Gas |
| K-16-1<br>K-16-2 | MANNVILLE<br>DETRITAL | Alsask Basal Blairmore Sand |
| K-17 | VIKING<br>(1"=1 mile) | Totnes Viking Gas |
| K-19 | VIKING<br>(1"=1 mile) | Glidden Viking Gas |
| K-24 | MARENGO<br>(1"=1 mile) | Marengo Viking Gas |

## AREA III

*(For map areas see Figure 11)*

| | | |
|---|---|---|
| K-14-1<br>K-14-2 | MEDICINE HAT<br>MILK RIVER<br>(1"=1 mile) | Hatton Medicine Hat Sand Gas<br>Hatton Milk River Gas<br>Hatton Milk River–Medicine Hat Gas |

| Map No. | Horizon Mapped | Pools on Sheet |
|---|---|---|
| K-20 | INDEX HORIZON ABOVE CANTUAR MARKER | Battrum Roseray Sand<br>Pennant Upper Shaunavon |
| K-21-1 | INDEX HORIZON ABOVE CANTUAR MARKER | Hazlet Roseray Sand<br>Verlo Roseray Sand |
| K-21-2 | BASE ROSERAY | |
| K-22-1 | INDEX HORIZON ABOVE CANTUAR MARKER | Antelope Lake Upper Shaunavon<br>Fosterton Roseray Sand |
| K-22-2 | BASE ROSERAY | Parts of Battrum, Beverley, Cantuar and North Premier |
| K-23 | INDEX HORIZON ABOVE CANTUAR MARKER | Beverley Cantuar Sand<br>Beverley Upper Roseray Sand<br>Cantuar East Cantuar Sand<br>Cantuar East Roseray Sand<br>Cantuar Lower Roseray Sand<br>Cantuar Main Cantuar Sand<br>Main Success Roseray Sand<br>South Success Roseray Sand<br>Success Roseray Sand Alpha |
| K-26-1 | INDEX HORIZON ABOVE CANTUAR MARKER | Antelope Lake Upper Shaunavon<br>Delta Upper Shaunavon |
| K-26-2 | BASE ROSERAY | North Premier Roseray Sand |
| K-26-3 | UPPER SHAUNAVON | North Premier Upper Shaunavon |
| K-27-1 | UPPER SHAUNAVON | Covington West Upper Shaunavon |
| K-27-2 | INDEX HORIZON ABOVE CANTUAR MARKER | Covington Upper Shaunavon<br>Gull Lake Basal Cantuar Sand |
| K-27-3 | BASE ROSERAY | Gull Lake Cantuar Gas<br>Gull Lake Central Upper Shaunavon<br>Gull Lake North Upper Shaunavon<br>Gull Lake South Upper Shaunavon<br>Johnston Upper Shaunavon<br>Suffield Roseray Sand<br>Suffield Upper Shaunavon |
| K-28 | UPPER SHAUNAVON | Bone Creek Upper Shaunavon<br>Clintonville Shaunavon<br>Instow Upper Shaunavon<br>Leitchville Shaunavon<br>Leon Lake Shaunavon<br>South Part of Bench Upper Shaunavon |
| K-29 | UPPER SHAUNAVON | Dollard Upper Shaunavon<br>Whitemud Upper Shaunavon |
| K-30 | UPPER SHAUNAVON | Eastbrook Upper Shaunavon<br>Rapdan Upper Shaunavon<br>Rapdan West Shaunavon |
| K-31 | UPPER SHAUNAVON | Bench Upper Shaunavon<br>Butte Upper Shaunavon<br>Covington Upper Shaunavon<br>Covington West Upper Shaunavon<br>Gull Lake South Upper Shaunavon<br>Illerbrun Upper Shaunavon |
| K-32-1 | UPPER SHAUNAVON | Battle Creek Madison |
| K-32-2 | MADISON | Battle Creek Upper Shaunavon |

## AREA IV

*(For map areas see Figure 12)*

| Map No. | Horizon Mapped | Pools on Sheet |
|---|---|---|
| K-50-1 | MIDALE | Alameda Midale Beds |
| K-50-2 | FROBISHER–ALIDA | West Part of Glen Ewen Midale Beds |
| | | West Part of Glen Ewen Frobisher Beds |
| K-51 | MISSISSIPPIAN EROSION SURFACE | Alida East Alida Beds |
| | | Alida West Alida Beds |
| | | Cantal Frobisher–Alida Beds |
| | | Edenvale Tilston Beds |
| | | Nottingham Alida Beds |
| | | Queensdale East Frobisher–Alida Beds |
| | | Queensdale North Alida Beds |
| | | Queensdale West Alida Beds |
| | | North Part of Rosebank Alida Beds |
| | | Wildwood Alida Beds |
| K-52-1 | MIDALE | Benson Midale Beds |
| K-52-2 | FROBISHER–ALIDA | East Part of Midale Central Frobisher Beds |
| | | East Part of Midale Central Midale Beds |
| | | Huntoon Frobisher Beds |
| | | Huntoon Midale Beds |
| | | South Part of Viewfield Frobisher Beds |
| K-53 | MISSISSIPPIAN EROSION SURFACE | Browning Frobisher–Alida Beds |
| | | Clarilaw Frobisher–Alida Beds |
| | | Morrisview Frobisher–Alida Beds |
| | | South Part of Arcola Frobisher–Alida Beds |
| | | Weir Hill Frobisher Beds |
| K-54-1 | MIDALE | Carnduff Midale Beds |
| K-54-2 | FROBISHER–ALIDA | Carnduff Frobisher Beds |
| | | East Part of Glen Ewen Frobisher Beds |
| | | East Part of Glen Ewen Midale Beds |
| | | Florence Frobisher Beds |
| | | Souris Flat Frobisher Beds |
| K-55-1 | MISSISSIPPIAN EROSION SURFACE | Elmore Frobisher Beds |
| K-55-2 | FROBISHER–ALIDA | Elmore Midale Beds |
| K-55-3 | FROBISHER LIMESTONE | North Antler Midale Beds |
| | | Sherwood Frobisher Beds |
| | | West Part of Gainsborough Frobisher–Alida Beds |
| | | Winmore Frobisher Beds |
| | | Workman Frobisher Beds |
| | | Workman Midale Beds |
| K-56 | MISSISSIPPIAN EROSION SURFACE | Freestone Frobisher–Alida Beds |
| | | Handsworth Alida Beds |
| | | Star Valley Frobisher–Alida Beds |
| | | Warmley Alida Beds |
| K-57 | MISSISSIPPIAN EROSION SURFACE | Frys Tilston–Souris Valley Beds |
| | | North Part of Storthoaks Alida–Tilston Beds |
| K-58 | MISSISSIPPIAN EROSION SURFACE | Gainsborough Frobisher–Alida Beds |
| K-59-1 | MIDALE | Glen Ewen Midale Beds |
| K-59-2 | FROBISHER–ALIDA | Glen Ewen Frobisher Beds |
| | | Florence Frobisher Beds |

| Map No. | Horizon Mapped | Pools on Sheet |
|---|---|---|
| K-60 | MISSISSIPPIAN EROSION SURFACE | Griffin Frobisher Beds<br>Hume Frobisher Beds<br>Hume Midale Beds<br>Innes Frobisher Beds<br>Ralph Midale Beds<br>West Innes Frobisher Beds |
| K-61 | MISSISSIPPIAN EROSION SURFACE | Hastings Frobisher Beds<br>Oakley Frobisher Beds<br>Silverton Frobisher Beds<br>South Part of Rosebank Alida Beds |
| K-62 | MISSISSIPPIAN EROSION SURFACE | Hazelwood Tilston Beds<br>Kenosee Tilston Beds<br>South Fletwode Tilston Beds<br>Warmley Alida Beds<br>West Part of Moose Mountain Tilston Beds |
| K-63 | MISSISSIPPIAN EROSION SURFACE | Handsworth Alida Beds<br>Hartaven Frobisher–Alida Beds<br>Lost Horse Hill Frobisher–Alida Beds<br>Melrose Frobisher–Alida Beds<br>North Handsworth Alida Beds<br>West Part of Freestone Frobisher–Alida Beds |
| K-64 | MISSISSIPPIAN EROSION SURFACE | Lightning Tilston Beds<br>Parkman South Tilston–Souris Valley Beds<br>South Part of Parkman Tilston–<br>Souris Valley Beds |
| K-65-1<br>K-65-2 | MIDALE<br>FROBISHER–ALIDA | Midale Central Midale Beds<br>Midale Central Frobisher Beds<br>West Part of Huntoon Frobisher Beds<br>West Part of Huntoon Midale Beds |
| K-66 | MIDALE | East Northgate Midale Beds<br>East Pinto Frobisher Beds<br>East Pinto Midale Beds<br>Northgate Frobisher Beds<br>Northgate Midale Beds |
| K67 | MISSISSIPPIAN EROSION SURFACE | Alida East Alida Beds<br>Alida West Alida Beds<br>Edenvale Tilston Beds<br>Ingoldsy Frobisher–Alida Beds<br>Nottingham Alida Beds<br>Oakley Frobisher Beds<br>Rosebank Alida Beds<br>Rosebank South Alida Beds<br>Silverton Frobisher Beds<br>Storthoaks Alida–Tilston Beds |
| K-68 | BASE OUNGRE EVAPORITE | Hoffer Ratcliffe Beds<br>Oungre Ratcliffe Beds |
| K-69 | MISSISSIPPIAN EROSION SURFACE | Crystal Hill Souris Valley Beds<br>Moose Mountain Tilston Beds<br>Parkman Souris Valley Beds<br>Parkman South Tilston–Souris Valley Beds<br>Parkman Tilston Beds<br>Parkman Tilston–Souris Valley Beds |

| Map No. | Horizon Mapped | Pools on Sheet |
|---|---|---|
| K-69 *(Continued)* | | White Bear Tilston Beds<br>White Bear Tilston–Souris Valley Beds |
| K-70-1 | FROBISHER–ALIDA | Pinto Frobisher Beds |
| K-70-2 | MIDALE | Pinto Midale Beds |
| K-71 | MIDALE | Bromhead Midale Beds |
| K-72-1 | MIDALE | East Part of West Kingsford Midale Beds |
| K-72-2 | FROBISHER–ALIDA | South Part of Weir Hill Frobisher Beds<br>Steelman Frobisher Beds<br>Steelman Midale Beds |
| K-73 | MIDALE | Macoun Midale Beds<br>View Hill Midale Beds<br>West Kingsford Midale Beds |
| K-74-1 | LOWER COLORADO | Wapella Sand |
| K-74-2 | MANNVILLE | |
| K-74-3 | WAPELLA SAND | |
| K-74-4 | JURASSIC EROSION SURFACE | |
| K-74-5 | JURASSIC SHALE MARKER | |
| K-74-6 | MISSISSIPPIAN EROSION SURFACE | |
| K-75-1 | MIDALE | Lougheed Midale Beds |
| K-75-2 | FROBISHER–ALIDA | Weyburn Frobisher Beds<br>Weyburn Midale Beds |
| K-76 | MISSISSIPPIAN EROSION SURFACE | Dalesboro Frobisher–Alida Beds<br>Willmar Frobisher–Alida Beds |
| K-77-1 | BAKKEN SAND | Rocanville Bakken Sand |
| K-77-2 | MISSISSIPPIAN EROSION SURFACE | |
| K-78 | MISSISSIPPIAN EROSION SURFACE | Arcola Frobisher–Alida Beds |
| K-79-1 | RATCLIFFE<br>Contour Interval–50 ft. | Hummingbird Birdbear<br>Hummingbird Ratcliffe Beds |
| K-79-2 | BIRDBEAR<br>Contour Interval–50 ft. | |
| K-80 | RATCLIFFE PRODUCING ZONE | Flat Lake Ratcliffe Beds<br>Hoffer Ratcliffe Beds<br>Lake Alma Ratcliffe Beds |
| K-81 | BASE OUNGRE EVAPORITE | Freda Lake Ratcliffe Beds<br>Skinner Lake Ratcliffe Beds |
| K-82 | MIDALE | North Part of Freda Lake Ratcliffe Beds |
| K-83 | BASE OUNGRE EVAPORITE | Neptune Ratcliffe Beds<br>East Part of Skinner Lake Ratcliffe Beds |
| K-84 | BAKKEN SAND | Roncott Bakken Sand |
| K-85 | MISSISSIPPIAN EROSION SURFACE | East Part of Huntoon Frobisher Beds<br>East Part of Huntoon Midale Beds<br>Stoughton Frobisher–Alida Beds<br>Viewfield Frobisher Beds |

**FOR REFERENCE ONLY. DO NOT ORDER FROM THIS INDEX. TO DETERMINE EXACT MAP REQUIREMENTS SEE PAGES 23 TO 28 INCLUSIVE.**

## POOL INDEX

*(For area boundaries see Figure 8)*

| *Pool* | *Refer to Maps Numbered* |
|---|---|
| **AREA I** | |
| *(For map areas see Figure 9)* | |
| ABERFELDY SPARKY SAND | K-1 |
| BEACON HILL BLAIRMORE SAND GAS | K-2 |
| BIG GULLY McLAREN SAND | K-1 |
| BIG GULLY WASECA SAND | K-1 |
| DEE VALLEY WASECA SAND | K-3 |
| DULWICH SPARKY SAND | K-1 |
| DULWICH NORTH SPARKY SAND | K-1 |
| EPPING G.P. SAND | K-4 |
| EPPING SPARKY SAND | K-4 |
| EYEHILL CUMMINGS SAND | K-18 |
| FOREST BANK WASECA SAND | K-3 |
| FURNESS SPARKY SAND | K-1 |
| GOLDEN LAKE NORTH SPARKY SAND | K-3 |
| GOLDEN LAKE NORTH WASECA SAND | K-3 |
| GOLDEN LAKE SOUTH SPARKY SAND | K-3 |
| GOLDEN LAKE SOUTH WASECA SAND | K-3 |
| GULLY LAKE WASECA SAND | K-3 |
| LANDROSE McLAREN SAND | K-1 |
| LANDROSE WASECA SAND | K-1 |
| LASHBURN WASECA SAND | K-3 |
| LLOYDMINSTER COLONY SAND GAS | K-1 |
| LONE ROCK SPARKY SAND | K-4 |
| LOW LAKE WASECA SAND | K-3 |
| MARSDEN SPARKY SAND | K-5 |
| NORTHMINSTER SPARKY SAND | K-1 |
| PIKES PEAK WASECA SAND | K-3 |
| SILVERDALE SPARKY SAND | K-1 |
| STANDARD HILL WASECA SAND | K-3 |
| TANGLEFLAGS G.P. SAND | K-1 |
| TANGLEFLAGS LLOYDMINSTER SAND | K-1 |
| TANGLEFLAGS SPARKY SAND | K-1 |
| **AREA II** | |
| *(For map areas see Figure 10)* | |
| AVON HILL VIKING | K-10 |
| ALSASK BASAL BLAIRMORE SAND | K-16 |
| BAYHURST VIKING GAS | K-11 |
| BAYHURST WEST VIKING GAS | K-11 |
| BROCK EAST VIKING GAS | K-12 |
| BROCK VIKING SAND GAS | K-12 |
| BUFFALO COULEE BAKKEN SAND | K-9 |
| COLEVILLE BAKKEN SAND | K-9 |
| COLEVILLE–SMILEY VIKING SAND GAS | K-8 and K-9 |
| DODSLAND VIKING SAND | K-10 |
| DODSLAND NORTH VIKING GAS | K-10 |

| Pool | Refer to Maps Numbered |
|---|---|
| EUREKA VIKING | K-9 and K-10 |
| FUSILIER BAKKEN SAND | K-6 or K-7 |
| GLIDDEN VIKING GAS | K-19 |
| GREENAN VIKING GAS | K-15 |
| HOOSIER BAKKEN SAND | K-6 or K-7 |
| HOOSIER VIKING GAS | K-7 and K-8 |
| LOVERNA DETRITAL | K-6 or K-7 |
| LUCKY HILLS VIKING | K-9 |
| MARENGO VIKING GAS | K-24 |
| MILTON VIKING SAND GAS | K-7 |
| NORTH HOOSIER BAKKEN SAND | K-6 or K-7 |
| NORTH HOOSIER BASAL BLAIRMORE SAND | K-6 or K-7 |
| PLATO VIKING | K-15 |
| SMILEY–DEWAR VIKING | K-8 |
| TOTNES VIKING GAS | K-17 |
| WHITESIDE VICTORIA SAND GAS | K-8 |
| WHITESIDE VIKING SAND | K-8 |

**AREA III**

*(For map areas see Figure 11)*

| | |
|---|---|
| ANTELOPE LAKE UPPER SHAUNAVON | K-22 or K-26 |
| BATTLE CREEK MADISON | K-32 |
| BATTLE CREEK UPPER SHAUNAVON | K-32 |
| BATTRUM ROSERAY SAND | K-20 |
| BENCH UPPER SHAUNAVON | K-31 |
| BEVERLEY CANTUAR SAND | K-23 |
| BEVERLEY UPPER ROSERAY SAND | K-23 |
| BONE CREEK UPPER SHAUNAVON | K-28 |
| BUTTE UPPER SHAUNAVON | K-31 |
| CANTUAR EAST CANTUAR SAND | K-23 |
| CANTUAR EAST ROSERAY SAND | K-23 |
| CANTUAR LOWER ROSERAY SAND | K-23 |
| CANTUAR MAIN CANTUAR SAND | K-23 |
| CLINTONVILLE SHAUNAVON | K-28 |
| COVINGTON UPPER SHAUNAVON | K-27 or K-31 |
| COVINGTON WEST UPPER SHAUNAVON | K-27 or K-31 |
| DELTA UPPER SHAUNAVON | K-26 |
| DOLLARD UPPER SHAUNAVON | K-29 |
| EASTBROOK UPPER SHAUNAVON | K-30 |
| FOSTERTON ROSERAY SAND | K-22 |
| GULL LAKE BASAL CANTUAR SAND | K-27 |
| GULL LAKE CANTUAR GAS | K-27 |
| GULL LAKE CENTRAL UPPER SHAUNAVON | K-27 |
| GULL LAKE NORTH UPPER SHAUNAVON | K-27 |
| GULL LAKE SOUTH UPPER SHAUNAVON | K-27 or K-31 |
| HATTON MEDICINE HAT SAND GAS | K-14 |
| HATTON MILK RIVER GAS | K-14 |
| HATTON MILK RIVER–MEDICINE HAT GAS | K-14 |
| HAZLET ROSERAY SAND | K-21 |
| ILLERBRUN UPPER SHAUNAVON | K-31 |
| INSTOW UPPER SHAUNAVON | K-28 |
| JOHNSTON UPPER SHAUNAVON | K-27 |
| LEITCHVILLE SHAUNAVON | K-28 |
| LEON LAKE SHAUNAVON | K-28 |
| NORTH PREMIER ROSERAY SAND | K-26 |

| Pool | Refer to Maps Numbered |
|---|---|
| NORTH PREMIER UPPER SHAUNAVON | K-26 |
| PENNANT UPPER SHAUNAVON | K-20 |
| RAPDAN WEST SHAUNAVON | K-30 |
| RAPDAN UPPER SHAUNAVON | K-30 |
| SUCCESS–MAIN SUCCESS ROSERAY SAND | K-23 |
| –SOUTH SUCCESS ROSERAY SAND | |
| –SUCCESS ROSERAY SAND ALPHA | |
| SUFFIELD ROSERAY SAND | K-27 |
| SUFFIELD UPPER SHAUNAVON | K-27 |
| VERLO ROSERAY SAND | K-21 |
| WHITEMUD UPPER SHAUNAVON | K-29 |

## AREA IV

*(For map areas see Figure 12)*

| | |
|---|---|
| ALAMEDA MIDALE BEDS | K-50 |
| ALIDA EAST ALIDA BEDS | K-51 or K-67 |
| ALIDA WEST ALIDA BEDS | K-51 or K-67 |
| ARCOLA FROBISHER–ALIDA BEDS | K-78 |
| BENSON MIDALE BEDS | K-52 |
| BROWNING FROBISHER–ALIDA BEDS | K-53 |
| BROMHEAD MIDALE BEDS | K-71 |
| CANTAL FROBISHER–ALIDA BEDS | K-51 |
| CARNDUFF FROBISHER BEDS | K-54 |
| CARNDUFF MIDALE BEDS | K-54 |
| CLARILAW FROBISHER–ALIDA BEDS | K-53 |
| CRYSTAL HILL SOURIS VALLEY BEDS | K-69 |
| DALESBORO FROBISHER–ALIDA BEDS | K-76 |
| EAST NORTHGATE MIDALE BEDS | K-66 |
| EAST PINTO FROBISHER BEDS | K-66 |
| EAST PINTO MIDALE BEDS | K-66 |
| EDENVALE TILSTON BEDS | K-51 or K-67 |
| ELMORE FROBISHER BEDS | K-55 |
| ELMORE MIDALE BEDS | K-55 |
| FLAT LAKE RATCLIFFE BEDS | K-80 |
| FLORENCE FROBISHER BEDS | K-54 or K-59 |
| FREDA LAKE RATCLIFFE BEDS | K-81 |
| FREESTONE FROBISHER–ALIDA BEDS | K-56 |
| FRYS TILSTON–SOURIS VALLEY BEDS | K-57 |
| GAINSBOROUGH FROBISHER–ALIDA BEDS | K-58 |
| GLEN EWEN FROBISHER BEDS | K-59 |
| GLEN EWEN MIDALE BEDS | K-59 |
| GRIFFIN FROBISHER BEDS | K-80 |
| HANDSWORTH ALIDA BEDS | K-56 or K-63 |
| HARTAVEN FROBISHER–ALIDA BEDS | K-63 |
| HASTINGS FROBISHER BEDS | K-61 |
| HAZELWOOD TILSTON BEDS | K-62 |
| HOFFER RATCLIFFE BEDS | K-68 or K-80 |
| HUME FROBISHER BEDS | K-60 |
| HUME MIDALE BEDS | K-60 |
| HUMMINGBIRD BIRDBEAR | K-79 |
| HUMMINGBIRD RATCLIFFE BEDS | K-79 |
| HUNTOON FROBISHER BEDS | K-52 |
| HUNTOON MIDALE BEDS | K-52 |
| INGOLDSBY FROBISHER–ALIDA BEDS | K-67 |
| INNES FROBISHER BEDS | K-60 |

| Pool | Refer to Maps Numbered |
|---|---|
| KENOSEE TILSTON BEDS | K-62 |
| LAKE ALMA RATCLIFFE BEDS | K-80 |
| LIGHTNING TILSTON BEDS | K-64 |
| LOST HORSE HILL FROBISHER–ALIDA BEDS | K-63 |
| LOUGHEED MIDALE BEDS | K-75 |
| MACOUN MIDALE BEDS | K-73 |
| MELROSE FROBISHER–ALIDA BEDS | K-63 |
| MIDALE CENTRAL FROBISHER BEDS | K-65 |
| MIDALE CENTRAL MIDALE BEDS | K-65 |
| MOOSE MOUNTAIN TILSTON BEDS | K-69 |
| MORRISVIEW FROBISHER–ALIDA BEDS | K-53 |
| NEPTUNE RATCLIFFE BEDS | K-83 |
| NORTH ANTLER MIDALE BEDS | K-55 |
| NORTHGATE FROBISHER BEDS | K-66 |
| NORTHGATE MIDALE BEDS | K-66 |
| NORTH HANDSWORTH ALIDA BEDS | K-63 |
| NOTTINGHAM ALIDA BEDS | K-51 or K-67 |
| OAKLEY FROBISHER BEDS | K-61 or K-67 |
| OUNGRE RATCLIFFE BEDS | K-68 |
| PARKMAN SOURIS VALLEY BEDS | K-69 |
| PARKMAN SOUTH TILSTON–SOURIS VALLEY BEDS | K-64 or K-69 |
| PARKMAN TILSTON BEDS | K-69 |
| PARKMAN TILSTON–SOURIS VALLEY BEDS | K-69 |
| PINTO FROBISHER BEDS | K-70 |
| PINTO MIDALE BEDS | K-70 |
| QUEENSDALE EAST FROBISHER–ALIDA BEDS | K-51 |
| QUEENSDALE NORTH ALIDA BEDS | K-51 |
| QUEENSDALE WEST ALIDA BEDS | K-51 |
| RALPH MIDALE BEDS | K-60 |
| ROCANVILLE BAKKEN SAND | K-77 |
| RONCOTT BAKKEN SAND | K-84 |
| ROSEBANK ALIDA BEDS | K-67 |
| ROSEBANK SOUTH ALIDA BEDS | K-67 |
| SHERWOOD FROBISHER BEDS | K-55 |
| SILVERTON FROBISHER BEDS | K-61 or K-67 |
| SKINNER LAKE RATCLIFFE BEDS | K-81 |
| SOURIS FLAT FROBISHER BEDS | K-54 |
| SOUTH FLETWODE TILSTON BEDS | K-62 |
| STAR VALLEY FROBISHER–ALIDA BEDS | K-56 |
| STEELMAN FROBISHER BEDS | K-72 |
| STEELMAN MIDALE BEDS | K-72 |
| STORTHOAKS ALIDA–TILSTON BEDS | K-67 |
| STOUGHTON FROBISHER–ALIDA BEDS | K-85 |
| VIEWFIELD FROBISHER BEDS | K-85 |
| VIEW HILL MIDALE BEDS | K-73 |
| WAPELLA SAND | K-74 |
| WARMLEY ALIDA BEDS | K-56 or K-62 |
| WEIR HILL FROBISHER BEDS | K-53 |
| WEST INNES FROBISHER BEDS | K-60 |
| WEST KINGSFORD MIDALE BEDS | K-72 or K-73 |
| WEYBURN FROBISHER BEDS | K-75 |
| WEYBURN MIDALE BEDS | K-75 |
| WHITE BEAR TILSTON BEDS | K-69 |
| WHITE BEAR TILSTON–SOURIS VALLEY BEDS | K-69 |
| WILDWOOD ALIDA BEDS | K-51 |

| Pool | Refer to Maps Numbered |
|---|---|
| WILLMAR FROBISHER–ALIDA BEDS | K-76 |
| WINMORE FROBISHER BEDS | K-55 |
| WORKMAN FROBISHER BEDS | K-55 |
| WORKMAN MIDALE BEDS | K-55 |

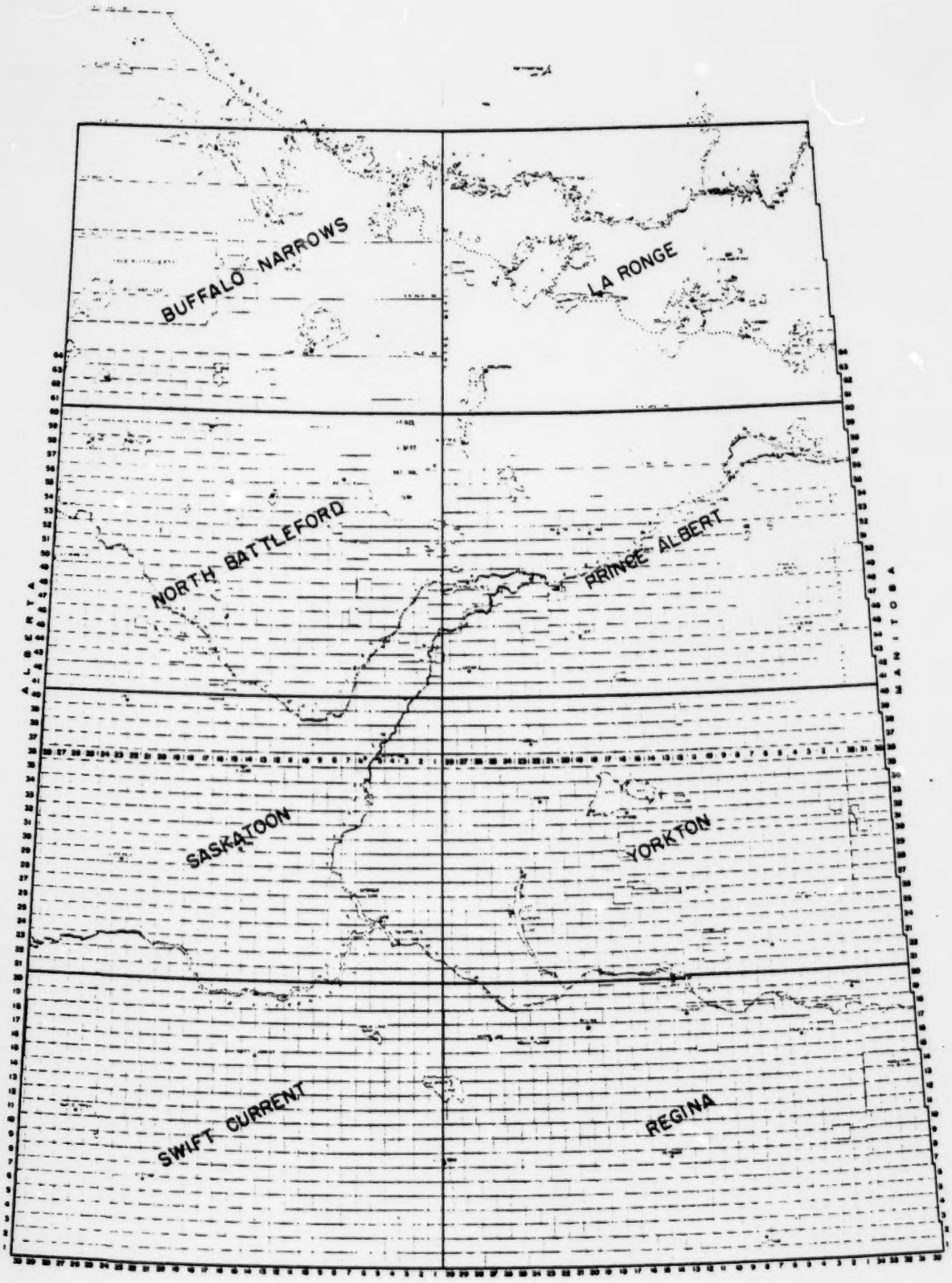



**Figure 13 – INDEX MAP OF 1:253,440 MAPS DRAWN ON THE TOWNSHIP SYSTEM**

# BASE MAPS

*(Containing non-technical information)*

Scale: 1 inch=2 miles (1:126,720)

$2.00

The following map shows railroads, all towns and individual River Lots, and the section grid. Legend at the side of the map shows all River Lots drawn to a large scale, with the lots numbered and unusual surveyed townships.

| Map No. | Map Title | Map Area |
|---|---|---|
| B-82 | PRINCE ALBERT AREA | Townships 41-49; Range 19, West of the Second Meridian to Range 5, West of the Third Meridian. |

Scale: 1 inch=4 miles (1:253,440)

$2.00 each

*(See Figure 13)*

The following maps show sections and townships, major topographic features, major towns and the Indian Reserves.

| | | |
|---|---|---|
| B-135 | REGINA | Townships 1-20; Manitoba border to the third Meridian. |
| B-136 | SWIFT CURRENT | Townships 1-20; Third Meridian to the Alberta border. |
| B-137 | YORKTON | Townships 21-40; Manitoba border to the Third Meridian. |
| B-138 | SASKATOON | Townships 21-40; Third Meridian to the Alberta border. |
| B-139 | PRINCE ALBERT | Townships 41-60; Manitoba border to the Third Meridian. |
| B-140 | NORTH BATTLEFORD | Townships 41-60; Third Meridian to the Alberta border. |
| B-141 | BUFFALO NARROWS | Townships 61-80; Third Meridian to the Alberta border. |

Scale: 1 inch=4 miles (1:253,440)

$2.00 each

*(See Figure 13)*

The following maps show the township grid, major topographic features, major towns and the Indian Reserves.

| | | |
|---|---|---|
| B-121 | REGINA | Townships 1-20; Manitoba border to the Third Meridian. |
| B-120 | SWIFT CURRENT | Townships 1-20; Third Meridian to the Alberta border. |
| B-123 | YORKTON | Townships 21-40; Manitoba border to the Third Meridian. |
| B-122 | SASKATOON | Townships 21-40; Third Meridian to the Alberta border. |
| B-125 | PRINCE ALBERT | Townships 41-60; Manitoba border to the Third Meridian. |

| Map No. | Map Title | Map Area |
|---|---|---|
| B-124 | NORTH BATTLEFORD | Townships 41-60; Third Meridian to the Alberta border. |
| B-126 | BUFFALO NARROWS | Townships 61-80; Third Meridian to the Alberta border. |
| B-178 | LA RONGE | Townships 61-80; Manitoba border to the Third Meridian. |

Scale: 1 inch=8 miles (1:506,880)

$2.00 each

| | | |
|---|---|---|
| B-88 | SOUTH SASKATCHEWAN | Townships 1-40; Manitoba border to the Alberta border. |
| B-89 | CENTRAL SASKATCHEWAN | Townships 41-80; Manitoba border to the Alberta border. |

# REGIONAL CONTOUR MAPS

$5.00 each

Scale: 1 inch=1 mile (1:63,360)

**THUNDERCHILD AREA**

Map Area: Townships 48-52; Range 18, West of the Third Meridian to the Alberta border.
The contours on this map are based on well control only and are drawn at 50-foot intervals.

E-354 STRUCTURE CONTOURS ON THE MANNVILLE GROUP

K. H. von Ledebur

**BATTLE RIVER AREA**

Map Area: Townships 44-47; Range 18, West of the Third Meridian to the Alberta border.
The contours on this map are based on well control only and are drawn at 50-foot intervals.

E-355 STRUCTURE CONTOURS ON THE MANNVILLE GROUP

K. H. von Ledebur

Scale: 1 inch=2 miles (1:126,720)

**SOUTHEASTERN SASKATCHEWAN**

Map Area: Townships 1-12; Manitoba border to Range 15, West of the Second Meridian.
It should be noted that because of space limitations the values used in preparing the contour maps are shown on separate sheets listed immediately below each map (except E-238 on which the values are shown).

E-205-A STRUCTURE CONTOURS ON THE MISSISSIPPIAN EROSION SURFACE
Contour Interval—50 feet

K. H. von Ledebur

E-205-B TOPS ON THE MISSISSIPPIAN EROSION SURFACE

K. H. von Ledebur

E-204-A STRUCTURE CONTOURS ON THE MIDALE BEDS
Contour Interval—50 feet

K. H. von Ledebur

E-204-B TOPS OF MIDALE BEDS

K. H. von Ledebur.

E-211 SUBCROP MAP ON THE MISSISSIPPIAN EROSION SURFACE

L. M. Fuzesy, W. I. White, W. P. von Osinski

E-206-A ISOPACH MAP OF THE LOWER WATROUS RED BEDS
Contour Interval—10 feet

K. H. von Ledebur

E-206-B THICKNESS MAP OF THE LOWER WATROUS RED BEDS

K. H. von Ledebur

E-238 STRUCTURE CONTOURS ON THE MANNVILLE GROUP
Contour Interval—50 feet

K. H. von Ledebur

**BIG MUDDY LAKE**

Map Area: Townships 1-8; Range 15, West of the Second Meridian to Range 2, West of the Third Meridian.

E-277 STRUCTURE CONTOURS ON THE RATCLIFFE BEDS
Contour Interval—100 feet

A. P. Schmid

**SOURIS RIVER**

Map Area: Townships 1-8; Manitoba border to Range 14, West of the Second Meridian.

E-315 STRUCTURE CONTOURS ON THE RATCLIFFE BEDS
Contour Interval—100 feet

A. P. Schmid

## REGIONAL CONTOUR MAPS

**CYPRESS LAKE**

Map Area: Townships 1-11; Range 14, West of the Third Meridian to the Alberta border.

T-1 STRUCTURE CONTOURS ON THE INDEX HORIZON ABOVE THE CANTUAR MARKER
Contour Interval—100 feet
A. P. Schmid

T-2 STRUCTURE CONTOURS ON THE UPPER SHAUNAVON
Contour Interval—50 feet
A. P. Schmid

T-8 STRUCTURE CONTOURS ON THE LOWER COLORADO
Contour Interval—10 feet
K. H. von Ledebur

T-10 STRUCTURE CONTOURS ON THE MILK RIVER FORMATION
Contour Interval—25 feet
W. I. White

T-11 ISOPACH MAP OF THE MILK RIVER SANDS
Contour Interval—10 feet
W. I. White

T-12 ISOPACH MAP OF THE SAND IN THE SECOND WHITE SPECKS INTERVAL
Contour Interval—10 feet
W. I. White

**BIGSTICK LAKE**

Map Area: Townships 12-21; Range 14, West of the Third Meridian to the Alberta border (except maps T-7 and T-9).

T-3 STRUCTURE CONTOURS ON THE INDEX HORIZON ABOVE THE CANTUAR MARKER
Contour Interval—10 feet
W. I. White

T-7 STRUCTURE CONTOURS ON THE UPPER SHAUNAVON
Note: This map does not include Township 21.
Contour Interval—50 feet
K. H. von Ledebur

T-9 STRUCTURE CONTOURS ON THE MILK RIVER FORMATION
Note: This map covers only the west half of the Bigstick Lake Sheet (Range 21, West of the Third Meridian to the Alberta border).
Contour Interval—50 feet
W. I. White

T-13 ISOPACH MAP OF THE MILK RIVER SANDS
Contour Interval—10 feet
W. P. von Osinski

Scale: 1 inch=4 miles (1:253,440)

**SWIFT CURRENT**

Map Area: Townships 1-20; Third Meridian to the Alberta border.

This area includes all the pools and fields that are producing from Jurassic and Cretaceous strata in southwestern Saskatchewan and also includes the principal area involved in helium exploration.

The values contoured are indicated at each control point in the case of wildcat wells but are not indicated for closely spaced field wells. The maps are based on well control and available seismic information.

E-207 STRUCTURE CONTOURS ON THE MANNVILLE GROUP
Contour Interval—50 feet
A. P. Schmid

## REGIONAL CONTOUR MAPS

E-209 STRUCTURE CONTOURS ON THE PALAEOZOIC EROSION SURFACE
Contour Interval—50 feet

K. H. von Ledebur

V-1 MAP SHOWING DRILL STEM TEST RESULTS
(Field wells excluded)

K. H. von Ledebur

**REGINA**

Map Area: Townships 1-20; Manitoba border to the Third Meridian.
The area includes all the pools and fields producing from the Mississippian in southeastern Saskatchewan.
The values are indicated at each control point for wildcat wells but are not indicated for closely spaced field wells. The maps are based on well control and available seismic information.

E-216 STRUCTURE CONTOURS ON THE PALAEOZOIC EROSION SURFACE
Contour Interval—50 feet

K. H. von Ledebur

E-254 STRUCTURE CONTOURS ON THE MANNVILLE GROUP
Contour Interval—50 feet

K. H. von Ledebur

E-352 STRUCTURE CONTOURS ON THE BIRDBEAR FORMATION
Contour Interval—100 feet

W. P. von Osinski

**SASKATOON**

Map Area: Townships 21-40; Third Meridian to the Alberta border.
The values contoured are indicated at each control point for wildcat wells but are not indicated for closely spaced field wells. The maps are based on well control and available seismic information.

E-253 STRUCTURE CONTOURS ON THE VIKING SAND
Contour Interval—50 feet

W. I. White

E-217 STRUCTURE CONTOURS ON THE MANNVILLE GROUP
Contour Interval—50 feet

K. H. von Ledebur

E-218 STRUCTURE CONTOURS ON THE PALAEOZOIC EROSION SURFACE
Contour Interval—50 feet

K. H. von Ledebur

**YORKTON**

Map Area: Townships 21-40; Manitoba border to the Third Meridian.
The values contoured are indicated at each control point for wildcat wells but are not indicated for closely spaced field wells. The maps are based on well control and available seismic information.

E-255 STRUCTURE CONTOURS ON THE MANNVILLE GROUP
Contour Interval—50 feet

K. H. von Ledebur

E-260 STRUCTURE CONTOURS ON THE PALAEOZOIC EROSION SURFACE
Contour Interval—100 feet

K. H. von Ledebur

**NORTH BATTLEFORD**

Map Area: Townships 41-60; Third Meridian to the Alberta border.
The values are indicated at each control point for wildcat wells but are not indicated for closely spaced field wells. The maps are based on well control.

E-219 STRUCTURE CONTOURS ON THE MANNVILLE GROUP
Contour Interval—50 feet

K. H. von Ledebur

E-265 STRUCTURE CONTOURS ON THE PALAEOZOIC EROSION SURFACE
Contour Interval—50 feet

K. H. von Ledebur

# REGIONAL CROSS SECTIONS

## STRATIGRAPHIC

$5.00 each

On the cross sections listed below mechanical well logs and lithology are presented on a vertical scale of one inch to one hundred feet for all strata from the top of the Lower Colorado to the Precambrian basement. Each major stratigraphic unit is correlated across the sections. Four datum planes are used: the tops of the Lower Colorado; the Mississippian; the Devonian and the Lower Palaeozoic.

A-214 **NORTH–SOUTH REGIONAL CROSS SECTION OF SASKATCHEWAN,** by R. B. Hutt, 1963.
This section extends from the Meadow Lake Basin to the International Boundary and in general runs parallel to the Third Meridian. It includes 25 wells extending from Great Plains McDermott No. 8-8 (lsd. 8-8-64-2W3) in the north to R.O. Corp. Killdeer No. 12-21 (lsd. 12-21-2-29W2) in the south. This section is printed on ten overlapping sheets and also includes a general legend sheet, a structure section (drawing No. A-216) and a stratigraphic correlation chart (drawing No. G-193).

A-215 **EAST–WEST REGIONAL CROSS SECTION OF SASKATCHEWAN,** by R. B. Hutt, 1963.
This section extends from the Alberta to Manitoba borders and in general runs parallel to and stays within six townships of the International Boundary. It includes 16 wells extending from Shell Barclay Supreme No. 1 (lsd. 7-2-2-28W3) in the west to Socony W.P.I. Carievale No. 1 (lsd. 16-4-3-32W1) in the east. This section is printed on eight overlapping sheets and also includes a general legend sheet, a structure section (drawing No. A-217) and a stratigraphic correlation chart (drawing No. G-193).
**Note:** The structure sections and the stratigraphic correlation chart from the above regional cross sections are also available separately. See listing under Regional Cross Sections–Structural.

## STRUCTURAL

$1.00 each

A-216 **NORTH–SOUTH STRUCTURE SECTION OF SASKATCHEWAN,** by R. B. Hutt, 1963. Horizontal Scale: 1 inch=10 miles. Vertical scale: 1 inch=600 feet. Extends along the Third Meridian from Great Plains McDermott No. 8-8 (lsd. 8-8-64-2W3) to R. O. Corp. Killdeer No. 12-21 (lsd. 12-21-2-29W2). Stratigraphic units are correlated across the section but no lithology or mechanical logs of the individual wells are presented. (See comments above on A-214–re: NORTH–SOUTH REGIONAL CROSS SECTION OF SASKATCHEWAN by R. B. Hutt, 1963).

A-217 **EAST–WEST STRUCTURE SECTION OF SASKATCHEWAN,** by R. B. Hutt, 1963. Horizontal Scale: 1 inch=10 miles. Vertical scale: 1 inch=600 feet. Extends along the International Boundary from Shell Barclay Supreme No. 1 (lsd. 7-2-2-28W3) to Socony W.P.I. Carievale No. 1 (lsd. 16-4-3-32W1). Stratigraphic units are correlated across the section but no lithology or mechanical logs of the individual wells are presented. (See comments above on A-215–re: EAST–WEST REGIONAL CROSS SECTION OF SASKATCHEWAN, by R. B. Hutt, 1963).

## CORRELATION CHART

$1.00

G-193 **STRATIGRAPHIC CORRELATION CHART OF SASKATCHEWAN AND ADJOINING AREAS,** October, 1963. (See also: A-214 and A-215 under REGIONAL CROSS SECTIONS, STRATIGRAPHIC).

# GENERAL REGIONAL MAPS AND DIAGRAMS

Scale: 1:1,000,000

Geological

$1.00 each

| Map Area | Map Title | Map No. | Year |
|---|---|---|---|
| 62 | ASSINIBOINE RIVER | 1166A | 1965 |
| 63 | CARROT RIVER | 1164A | 1965 |
| 72 | SOUTH SASKATCHEWAN RIVER | 1165A | 1965 |
| 73 | NORTH SASKATCHEWAN RIVER | 1163A | 1965 |
| 74 | CLEARWATER RIVER | 1162A | 1965 |

Scale: 1:5,000,000

$2.00 each

| | | |
|---|---|---|
| GEOLOGICAL MAP OF CANADA | 1250A | 1969 |
| TECTONIC MAP OF CANADA | 1251A | 1969 |
| MINERAL DEPOSITS OF CANADA | 1252A | 1969 |

**INDEX MAP OF SASKATCHEWAN,** according to the National Topographic System, showing the township and range grid. Includes an extensive list of geographical names on the back of the map which are location-referenced to the National Topographic System grid on the front of the map.

Scale: 1 inch=20 miles (1:1,267,200) Size: 22" X 43" Price $ 1.00

**GEOLOGICAL MAP OF SASKATCHEWAN**

Scale: 1 inch=20 miles (1:1,267,200) Size: 29" X 43" Price $ 1.00

Joint Production, 1972: Sedimentary Area: Saskatchewan Research Council
Precambrian Area: Department of Mineral Resources

Formations and rock groups are interpreted by means of explanation keys giving the age and composition of the rocks indicated by the symbols and variously coloured parts of the map. Five pre-glacial buried stream valleys are located. The comprehensive coverage of the map is enhanced by descriptive notes and two small inset maps, one of physiographic divisions, the other of geological maps previously published.

**MINERAL DEPOSITS MAP OF NORTHERN SASKATCHEWAN,** (North of 54° N. Lat.)

Size: 25" X 38" Scale: 1 inch = 20 miles (1:1,267,200) Price $ 1.00
Prepared in 1972, from data compiled to Dec. 1970.

Each deposit is marked by a coloured symbol and is numerically identified. The shape of the symbol denotes the type of the deposit; the size indicates whether the deposit is classified as an occurrence (smallest symbol), prospect (medium-sized symbol) or mine (largest symbol); the colour identifies the main economic elements. Reference to the number in the accompanying table gives the more usual name of the deposits, all economic elements so far identified from the deposit, and the most comprehensive reference to the deposit.

**MINERAL DEVELOPMENT MAP OF SOUTHERN SASKATCHEWAN,** (latest revision supplied).

Size: 11" X 16" Scale: 1 inch=40 miles (1:2,534,400) Price $ 1.00
Size: 34" X 46" Scale: 1 inch=14 miles (1:887,040) Price $ 3.00

A coloured map showing: designated oil and gas pools, well spacing area, commercial potash areas, oil and gas pipe lines, oil refineries, gas conservation plants, potash mines, sodium sulphate plants and deposits, and salt and helium plants.

**DEEPEST WELL IN SASKATCHEWAN—STRATIGRAPHIC COLUMN**
by Douglas F. Paterson, 1973.
Size: 24" X 42" Price $ 1.00

A stratigraphic column of the Imperial Halkett Well (lsd. 15-7-3-8W2) to a depth of 10,573 feet.

**BLOCK DIAGRAM OF SASKATCHEWAN GEOLOGY**
by Douglas F. Paterson, 1973.
Size: 21" X 30" Price $ 1.00

Shows a three dimensional perspective on the strata viewed from the southeast corner of the province.

**MAPS OF GEOLOGICAL SYSTEMS IN SASKATCHEWAN,**
by Douglas F. Paterson, 1973

The 14 8½" X 11" maps in this publication are intended as teaching aids in school Geo-Science courses. They contain basic information concerning age, thickness, lithology and past and present areal distribution of the geological systems in Saskatchewan. Price $ 1.00

# GEOLOGICAL MAPS

Scale: 1 inch = 800 feet (1:9,600)

$1.00 each

| Map Area | Map Title | Map No. |
|---|---|---|
| 74-N-7 (Part) | MILLIKEN LAKE (Sheet 1)<br>Area covered: 59°20' - 59°25' N. Lat.<br>108°55' - 109°00' W. Long. | 38-1959 |
| 74-N-7 (Part) | MILLIKEN LAKE (Sheet 2)<br>Area covered: 59°20' - 59°25' N. Lat.<br>108°50' - 108°55' W. Long. | 33-1961 |
| 74-N-7 (Part) | MILLIKEN LAKE (Sheet 3)<br>Area covered: 59°20' - 59°25' N. Lat.<br>108°45' - 108°50' W. Long. | 10-1962 |
| 74-N-7 (Part) | MILLIKEN LAKE (Sheet 4)<br>Area covered: 59°20' - 59°25' N. Lat.<br>108°40' - 108°45' W. Long. | 11-1962 |
| 74-N-10 (Part) | URANIUM CITY (Sheets 1 & 2)<br>Area covered: 59°30' - 59°35' N. Lat.<br>108°35' - 108°45' W. Long. | 54-15 |
| 74-N-9, 10 (Parts) | URANIUM CITY (Sheets 3 & 4)<br>Area covered: 59°30' - 59°35' N. Lat.<br>108°25' - 108°35' W. Long. | 55-28 |
| 74-N-9 (Part) | URANIUM CITY (Sheet 5)<br>Area covered: 59°32'30" - 59°37' N. Lat.<br>108°20' - 108°25' W. Long. | 18-1956 |
| 74-N-9, 10 (Parts) | URANIUM CITY (Sheet 6)<br>Area covered: 59°35' - 59°37' N. Lat.<br>108°25' - 108°35' W. Long. | 25-1957 |
| 74-N-10 (Part) | URANIUM CITY (Sheet 7)<br>Area covered: 59°35' - 59°37' N. Lat.<br>108°35' - 108°45' W. Long. | 12-1958 |

Scale: 1 inch=1,000 feet (1:12,000)

$1.00 each

| | | |
|---|---|---|
| 63-K-12, 13 (Parts) | FLIN FLON—MANDY (1954)<br>Area covered: 54°42'10" - 54°48'30" N. Lat.<br>101°49'10" - 101°55'40" W. Long. | 1078A |

Scale: 1 inch=1,200 feet (1:14,400)

$1.50

| | | |
|---|---|---|
| 74-N-9, 10 (Parts) | BEAVERLODGE MINING AREA | 27-1968 |

In two sheets sold together, Sheet 1 covers the same area as URANIUM CITY sheets 3, 4, 5, and 6; Sheet 2 covers the same area as URANIUM CITY sheets 1, 2, and 7.

Scale: 1 inch=1 mile (1:63,360)

$1.50 each

| | | | |
|---|---|---|---|
| 63-K-12-W | SCHIST LAKE | 633A | 1941 |
| 63-K-13-W | FLIN FLON | 632A | 1941 |
| 63-L-10-E | SNAKE RAPIDS | 1009A | 1951 |
| 63-M-1-E | MARI LAKE | 639A | 1941 |

## GEOLOGICAL MAPS

| Map Area | Map Title | Map No. | Year |
|---|---|---|---|
| 73-P-7-W | MacKAY LAKE | 592A | 1941 |
| 74-B-6,7,10,11 (parts of) | MUDJATIK–HAULTAIN N.E. | 318A | 1935 |
| 74-B-5,6,11,12, (parts of) | MUDJATIK–HAULTAIN N.W. | 317A | 1935 |
| 74-B-3,4,5,6 (parts of) | MUDJATIK-HAULTAIN S.W. | 319A | 1935 |
| 74-B-2,3,6,7 (parts of) | MUDJATIK–HAULTAIN S.E. | 320A | 1935 |
| 74-N-7-W | CRACKINGSTONE | 1095A | 1960 |

Scale: 1 inch=2 miles (1:126,720)

$1.00 each

| | | | |
|---|---|---|---|
| 63-F | VIRDEN (Surficial Geology) | 39-1961 | 1961 |
| 63-L-NE | AMISK LAKE | 314A | 1935 |

Scale: 1 inch=4 miles (1:253,440)

$1.00 each

| | | | |
|---|---|---|---|
| 62-F-W | VIRDEN (Groundwater Probability) | 1157A | 1966 |
| 62-K | RIDING MOUNTAIN (Surficial Geology) | 16-1965 | 1965 |
| 62-K | RIDING MOUNTAIN (Bedrock Topography) | 2-1966 | 1966 |
| 63-C-W | MAFEKING | 637A | 1941 |
| 63-D-E | ETOMAMI RIVER | 638A | 1941 |
| 63-M | PELICAN NARROWS | 1-1958 | 1958 |
| 63-N | KISSISSING | 970A | 1949 |
| 64-D-E | WAPUS LAKE | 527A | 1939 |
| 64-D-W | OLIVER LAKE | 528A | 1939 |
| 64-E-E | REINDEER LAKE | 595A | 1941 |
| 64-E-W | SPALDING LAKE | 596A | 1941 |
| 64-L | WOLLASTON LAKE | 27-1957 | 1957 |
| 64-M | PHELPS LAKE | 5-1960 | 1960 |
| 72-F-W | CYPRESS LAKE | 784A | 1944 |
| 72-F-W | CYPRESS LAKE (Structure contours on top of the Oxarart Member of the Bearpaw Formation) | 856A | 1946 |
| 72-O | ROSETOWN (Groundwater Probability in Surficial Deposits) | 1158A | 1966 |
| 72-O | ROSETOWN (Groundwater Probability in Bedrock) | 1159A | 1966 |
| 73-C-E | BATTLEFORD E. (Surficial Geology) | 15-1959 | 1959 |
| 73-C-E | BATTLEFORD E. | 491A | 1939 |
| 73-C-W | BATTLEFORD W. | 492A | 1939 |
| 73-F-E | FORT PITT E. | 489A | 1939 |
| 73-F-W | FORT PITT W. | 490A | 1939 |
| 73-P-W | LAC LA RONGE W. | 357A | 1936 |
| 74-A-E | FOSTER LAKE E. | 433A | 1938 |
| 74-A-W | FOSTER LAKE W. | 434A | 1938 |
| 74-B-E | HAULTAIN RIVER | 579A | 1941 |
| 74-B-W | PORTER LAKE | 580A | 1941 |
| 74-C | LA LOCHE | 10-1961 | 1961 |
| 74-E-E & 74-F-W | FIREBAG RIVER AREA | 16-1961 | 1961 |
| 74-F-E | UPPER CLEARWATER RIVER | 578A | 1941 |

## GEOLOGICAL MAPS

| Map Area | Map Title | Map No. | Year |
|---|---|---|---|
| 74-G-E | WEITZEL LAKE | 576A | 1941 |
| 74-G-W | BRUSTAD RIVER | 577A | 1941 |
| 74-P-E | PORCUPINE RIVER | 658A | 1941 |

Scale: 1 inch=8 miles (1:506,880)

$ 1.00 each

| | | | |
|---|---|---|---|
| 64-SW | REINDEER LAKE | 1016A | 1953 |
| 74-SE | MUDJATIK–GEIKIE | 1007A | 1950 |

# GEOPHYSICAL MAPS

## AEROMAGNETIC

Scale: 1 inch=½ mile (1:31,680)

$1.00 each

| Map Area | Map Title | Map No. | Surveyed |
|---|---|---|---|
| 63-K-12 & 63-L-9 (parts) | CORONATION MINE | 1028G | 1960 |

Scale: 1 inch=½ mile (1:31,680)

$1.00 each

| Map Area | Map Title |
|---|---|
| **Surveyed 1953 (Blueline prints)** *(radioactive zones indicated)* | |
| 73-P-6 | NEMEIBEN LAKE |
| 73-P-7 | STANLEY |
| 73-P-8-W | NISTOWIAK LAKE W. |
| 73-P-9-W | GUNCOAT BAY W. |
| 73-P-10 | OTTER LAKE |
| **Surveyed 1954 (Lithographed)** *(radioactive zones indicated)* | |
| 74-B-5 | GILLIES LAKE |
| 74-B-11-W | GRAND RAPIDS W. |
| 74-B-12 | HEDDERY LAKE |
| 74-B-13 | BLACK BIRCH LAKE |
| 74-B-14-W | GWILLIM LAKE W. |
| **Surveyed 1957 (Lithographed)** | |
| 63-L-13-W | OSKIKEBUK LAKE W. |
| 73-P-1-E and part 73-1-16-NE | CARTIER LAKE E. |
| 73-P-1-W and part 73-1-16-NW | CARTIER LAKE W. |
| 73-P-2-E and part 73-1-15-NE | HUNTER BAY E. |
| 73-P-8-E | NISTOWIAK LAKE E. |
| 73-P-9-E | GUNCOAT BAY E. |
| 73-P-15-E | FORBES LAKE E. |
| 73-P-15-W | FORBES LAKE W. |
| 73-P-16-W | SETTEE LAKE W. |
| **Surveyed 1958 (lithographed)** | |
| 64-D-13-E | WATHAMAN LAKE E. |
| 64-D-13-W | WATHAMAN LAKE W. |
| 64-D-14-E | OLIVER LAKE E. |
| 64-D-14-W | OLIVER LAKE W. |
| 64-D-15-W | PERRY LAKE W. |
| 73-P-11-E | TROUT LAKE E. |
| 73-P-11-W | TROUT LAKE W. |
| 73-P-13-E | EULAS LAKE E. |
| 73-P-13-W | EULAS LAKE W. |
| 73-P-14-W | McTAVISH LAKE W. |

## AEROMAGNETIC

*(Upward Continuation)*

Scale: 1 inch=1 mile (1:63,360)

$1.00 each or $8.00 per set of ten maps

These maps show the value of the earth's magnetic field as it would be observed from a flying height of 1000 feet above mean terrain elevation. The maps are thus compatible with those for the remainder of the Precambrian area which was flown at a mean terrain clearance of 1000 feet.

Available only as blueline prints

| Map Area | Map Title | Map No. | Date |
|---|---|---|---|
| 73-P-1 | CARTIER LAKE | N-20 | April, 1972 |
| 73-P-6 | NEMEIBEN LAKE | N-21 | April, 1972 |
| 73-P-7 | STANLEY | N-22 | April, 1972 |
| 73-P-8 | NISTOWIAK LAKE | N-23 | April, 1972 |
| 73-P-9 | GUNCOAT BAY | N-24 | April, 1972 |
| 73-P-10 | OTTER LAKE | N-25 | April, 1972 |
| 73-P-11 | BIRCH RAPIDS | N-26 | April, 1972 |
| 73-P-13 | EULAS LAKE | N-27 | April, 1972 |
| 73-P-14 | McTAVISH LAKE | N-28 | April, 1972 |
| 73-P-15 | FORBES LAKE | N-29 | April, 1972 |

## AEROMAGNETIC

Scale: 1 inch=1 mile (1:63,360)

$1.00 each

| Map Area | Map Title | Map No. | Surveyed |
|---|---|---|---|
| 63-E-1 | CEBA CREEK | 4690G | 1967 to 1969 |
| 63-E-2 | BURKMAYER LAKE | 4689G | 1967 to 1969 |
| 63-E-3 | CONNELL CREEK | 4688G | 1967 to 1969 |
| 63-E-4 | ARBORFIELD | 4687G | 1967 to 1969 |
| 63-E-5 | CARROT RIVER | 4671G | 1967 to 1969 |
| 63-E-6 | BATTLE HEIGHTS | 4672G | 1967 to 1969 |
| 63-E-7 | RED EARTH CREEK | 4673G | 1967 to 1969 |
| 63-E-8 | OTOSQUEN | 4674G | 1967 to 1969 |
| 63-E-9 | PETABEC LAKE | 4658G | 1967 to 1969 |
| 63-E-10 | MEADOW LAKE | 4657G | 1967 to 1969 |
| 63-E-11 | RAVENDALE | 4656G | 1967 to 1969 |
| 63-E-12 | MOSSYVALE | 4655G | 1967 to 1969 |
| 63-E-13 | BAIRD LAKE | 4639G | 1967 to 1969 |
| 63-E-14 | ANDERSON ISLAND | 4640G | 1967 to 1969 |
| 63-E-15 | CUT BEAVER LAKE | 4641G | 1967 to 1969 |
| 63-E-16 | CUMBERLAND HOUSE | 4642G | 1967 to 1969 |
| 63-F-4 | CHEMONG CREEK | 4256G | 1965 |
| 63-F-5 | TURNBERRY | 4257G | 1965 |
| 63-F-12 | CULDESAC LAKE | 4258G | 1965 |
| 63-F-13 | BARRIER LAKE | 4259G | 1965 |

| | | | |
|---|---|---|---|
| 63-K-4 | NAMEW LAKE | 2451G | 1962 |
| 63-K-5 | GOOSE LAKE | 2452G | 1962 |
| 63-K-12 | ATHAPAPUSKOW LAKE | 2453G | 1962 |
| 63-K-13 | FLIN FLON | 2454G | 1962 |
| 63-L-1 | ARCHIBALD LAKE | 4626G | 1967, 1968 & 1969 |
| 63-L-2 | PINEBLUFF LAKE | 4625G | 1967, 1968 & 1969 |
| 63-L-3 | ERICKSON LAKE | 4624G | 1967, 1968 & 1969 |
| 63-L-4 | RED BOBS LAKE | 4623G | 1967, 1968 & 1969 |
| 63-L-5 | SEAGER WHEELER LAKE | 4613G | 1967 |
| 63-L-6 | SAUNDERS LAKE | 4614G | 1967 |
| 63-L-7 | SUGGI LAKE | 4615G | 1967 |
| 63-L-8 | LEONARD LAKE | 4616G | 1967 |
| 63-L-9 | DENARE BEACH | 4606G | 1966 & 1967 |
| 63-L-10 | HANSON LAKE | 4605G | 1966 & 1967 |
| 63-L-11 | LIMESTONE LAKE | 4604G | 1966 & 1967 |
| 63-L-12 | BALLANTYNE BAY | 4603G | 1966 & 1967 |
| 63-L-13 | OSKIKEBUK LAKE | 4593G | 1966 & 1967 |
| 63-L-14 | VINEY LAKE | 4594G | 1966 & 1967 |
| 63-L-15 | BIRCH PORTAGE | 4595G | 1966 & 1967 |
| 63-L-16 | ANNABEL LAKE | 4596G | 1966 & 1967 |
| 63-M-1 | ATTITTI LAKE | 4586G | 1968 & 1969 |
| 63-M-2 | PELICAN NARROWS | 4585G | 1968 & 1969 |
| 63-M-3 | SANDY NARROWS | 4584G | 1968 & 1969 |
| 63-M-4 | MAYNARD LAKE | 4822G | 1968 & 1969 |
| 63-M-5 | TRADE LAKE | 4812G | 1968 & 1969 |
| 63-M-6 | MANAWAN LAKE | 4813G | 1968 & 1969 |
| 63-M-7 | MARCHEL LAKE | 4814G | 1968 & 1969 |
| 63-M-8 | NEMEI LAKE | 4815G | 1968 & 1969 |
| 63-M-9 | ISLAND FALLS | 4805G | 1968 & 1969 |
| 63-M-10 | WINTEGO LAKE | 4804G | 1968 & 1969 |
| 63-M-11 | CONJURING RIVER | 4803G | 1968 & 1969 |
| 63-M-12 | GLENNIE LAKE | 4802G | 1968 & 1969 |
| 63-M-13 | KELLY LAKE | 4792G | 1968 & 1969 |
| 63-M-14 | STEEPHILL LAKE | 4793G | 1968 & 1969 |
| 63-M-15 | SCIMITAR LAKE | 4794G | 1968 & 1969 |
| 63-M-16 | (No Title) | 4795G | 1968 & 1969 |
| 63-N-4 | DUVAL LAKE | 2547G | 1964 |
| 63-N-5 | KIPAHIGAN LAKE | 2548G | 1964 |
| 63-N-12 | (No Title) | 2549G | 1964 |
| 63-N-13 | BRITTON LAKE | 2550G | 1964 |
| 64-D-1 | KAMATSI LAKE | 2843G | 1964 |
| 64-D-2 | HARRIOTT LAKE | 2842G | 1964 |
| 64-D-3 | ROYAL LAKE | 2841G | 1964 |
| 64-D-4 | WADDY LAKE | 2840G | 1964 |
| 64-D-5 | MAY LAKE | 2824G | 1964 |
| 64-D-6 | SOUTHEND | 2825G | 1964 |
| 64-D-7 | FINLAYSON LAKE | 2826G | 1964 |
| 64-D-8 | WAPUS LAKE | 2827G | 1964 |
| 64-D-9 | BLEASDELL LAKE | 2811G | 1964 |
| 64-D-10 | MILTON ISLAND | 2810G | 1964 |
| 64-D-11 | GHANA LAKE | 2809G | 1964 |
| 64-D-12 | MACOUN LAKE | 2808G | 1964 |
| 64-D-13 | WATHAMAN LAKE | 2792G | 1964 |
| 64-D-14 | OLIVER LAKE | 2793G | 1964 |
| 64-D-15 | PERRY LAKE | 2794G | 1964 |
| 64-D-16 | AMISKIT ISLAND | 2795G | 1964 |

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|---|---|---|---|
| 64-E-1 | CHEESMAN ISLAND | 2779G | 1963 |
| 64-E-2 | WEPUSKO BAY | 2778G | 1963 |
| 64-E-3 | REILLY LAKE | 2777G | 1963 |
| 64-E-4 | ROBSON LAKE | 2776G | 1963 |
| 64-E-5 | COMBE LAKE | 2760G | 1963 |
| 64-E-6 | RUTHERFORD LAKE | 2761G | 1963 |
| 64-E-7 | BEDFORD ISLAND | 2762G | 1963 |
| 64-E-8 | BEAVER ISLAND | 2763G | 1963 |
| 64-E-9 | BALLENTIN ISLAND | 2747G | 1963 |
| 64-E-10 | PEARCE LAKE | 2746G | 1963 |
| 64-E-11 | CAIRNS LAKE | 2745G | 1963 |
| 64-E-12 | MORELL LAKE | 2744G | 1963 |
| 64-E-13 | NEKWEAGA BAY | 2728G | 1963 |
| 64-E-14 | LINN ISLAND | 2729G | 1963 |
| 64-E-15 | MacKENZIE LAKE | 2730G | 1963 |
| 64-E-16 | FRASER ISLAND | 2731G | 1963 |
| 64-L-1 | ZANGEZA BAY | 2715G | 1962 |
| 64-L-2 | FIDLER BAY | 2714G | 1962 |
| 64-L-3 | HUNGRY ISLAND | 2713G | 1962 |
| 64-L-4 | HIDDEN BAY | 2712G | 1962 |
| 64-L-5 | CUNNING BAY | 2696G | 1962 |
| 64-L-6 | FIFE ISLAND | 2697G | 1962 |
| 64-L-7 | KLEMMER LAKE | 2698G | 1962 |
| 64-L-8 | METKA LAKE | 2699G | 1962 |
| 64-L-9 | SAVA LAKE | 2683G | 1962 |
| 64-L-10 | DECEPTION BAY | 2682G | 1962 |
| 64-L-11 | KILLOCK BAY | 2681G | 1962 |
| 64-L-12 | HATCHET LAKE | 2680G | 1962 |
| 64-L-13 | BABICHE LAKE | 2664G | 1962 |
| 64-L-14 | WALSH LAKE | 2665G | 1962 |
| 64-L-15 | BANNOCK LAKE | 2666G | 1962 |
| 64-L-16 | CHARCOAL LAKE | 2667G | 1962 |
| 64-M-1 | HARA LAKE | 1247G | 1961 |
| 64-M-2 | EYINEW LAKE | 1248G | 1961 |
| 64-M-3 | BICKERTON LAKE | 1249G | 1961 |
| 64-M-4 | MISEKUMAW LAKE | 1250G | 1961 |
| 64-M-5 | WALKER LAKE | 1251G | 1961 |
| 64-M-6 | FRANKLIN LAKE | 1252G | 1961 |
| 64-M-7 | HUTCHERSON LAKE | 1253G | 1961 |
| 64-M-8 | NUNIM LAKE | 1254G | 1961 |
| 64-M-9 | DUTTON LAKE | 1255G | 1961 |
| 64-M-10 | EMERSON LAKE | 1256G | 1961 |
| 64-M-11 | BATTLEFORD LAKE | 1257G | 1961 |
| 64-M-12 | SAKWASEW LAKE | 1258G | 1961 |
| 64-M-13 | WAYOW LAKE | 1259G | 1961 |
| 64-M-14 | BAILEY LAKE | 1260G | 1961 |
| 64-M-15 | WARREN LAKE | 1261G | 1961 |
| 64-M-16 | PATTERSON LAKE | 1262G | 1961 |
| 73-F-1 | JACKFISH LAKE | 4678G | 1967 to 1969 |
| 73-F-2 | ST. HIPPOLYTE | 4677G | 1967 to 1969 |
| 73-F-3 | MAIDSTONE | 4676G | 1967 to 1969 |
| 73-F-4 | LASHBURN | 4675G | 1967 to 1969 |
| 73-F-5 | GREENSTREET | 4659G | 1967 to 1969 |
| 73-F-6 | CLEEVES | 4660G | 1967 to 1969 |
| 73-F-7 | TURTLEFORD | 4661G | 1967 to 1969 |
| 73-F-8 | MEDSTEAD | 4662G | 1967 to 1969 |
| 73-F-9 | HELENE LAKE | 4646G | 1967 to 1969 |

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|---|---|---|---|
| 73-F-10 | TURTLE LAKE | 4645G | 1967 to 1969 |
| 73-F-11 | ST. WALBURG | 4644G | 1967 to 1969 |
| 73-F-12 | FRENCHMAN BUTTE | 4643G | 1967 to 1969 |
| 73-F-13 | BRONSON LAKE | 4627G | 1967 to 1969 |
| 73-F-14 | BARTHEL | 4628G | 1967 to 1969 |
| 73-F-15 | HORSEHEAD CREEK | 4629G | 1967 to 1969 |
| 73-F-16 | HUNTING LAKE | 4630G | 1967 to 1969 |
| 73-G-1 | SHELLBROOK | 4682G | 1967 to 1969 |
| 73-G-2 | PARKSIDE | 4681G | 1967 to 1969 |
| 73-G-3 | MISTAWASIS LAKE | 4680G | 1967 to 1969 |
| 73-G-4 | MEETING LAKE | 4679G | 1967 to 1969 |
| 73-G-5 | WITCHEKAN LAKE | 4663G | 1967 to 1969 |
| 73-G-6 | MILDRED | 4664G | 1967 to 1969 |
| 73-G-7 | CANWOOD | 4665G | 1967 to 1969 |
| 73-G-8 | WILD ROSE | 4666G | 1967 to 1969 |
| 73-G-9 | HALKETT LAKE | 4650G | 1967 to 1969 |
| 73-G-10 | DEBDEN | 4649G | 1967 to 1969 |
| 73-G-11 | KEG LAKE | 4648G | 1967 to 1969 |
| 73-G-12 | LEOVILLE | 4647G | 1967 to 1969 |
| 73-G-13 | CHITEK | 4631G | 1967 to 1969 |
| 73-G-14 | BIG RIVER | 4632G | 1967 to 1969 |
| 73-G-15 | BODMIN | 4633G | 1967 to 1969 |
| 73-G-16 | WASKESIU LAKE | 4634G | 1967 to 1969 |
| 73-H-1 | RIDGEDALE | 4686G | 1967 to 1969 |
| 73-H-2 | FAIRY GLEN | 4685G | 1967 to 1969 |
| 73-H-3 | PEONAN LAKE | 4684G | 1967 to 1969 |
| 73-H-4 | PRINCE ALBERT | 4683G | 1967 to 1969 |
| 73-H-5 | HENRIBOURG | 4667G | 1967 to 1969 |
| 73-H-6 | WEIRDALE | 4668G | 1967 to 1969 |
| 73-H-7 | SMEATON | 4669G | 1967 to 1969 |
| 73-H-8 | NIPAWIN | 4670G | 1967 to 1969 |
| 73-H-9 | TORCH RIVER | 4654G | 1967 to 1969 |
| 73-H-10 | BEDARD CREEK | 4653G | 1967 to 1969 |
| 73-H-11 | TORCH LAKE | 4652G | 1967 to 1969 |
| 73-H-12 | CHRISTOPHER LAKE | 4651G | 1967 to 1969 |
| 73-H-13 | BITTERN LAKE | 4635G | 1967 to 1969 |
| 73-H-14 | CANDLE LAKE | 4636G | 1967 to 1969 |
| 73-H-15 | (No Title) | 4637G | 1967 to 1969 |
| 73-H-16 | FALLING HORSE CREEK | 4638G | 1967 to 1969 |
| 73-I-1 | SCARTH RIVER | 4622G | 1967, 1968 & 1969 |
| 73-I-2 | SUMMIT LAKE | 4621G | 1967, 1968 & 1969 |
| 73-I-3 | WHITESWAN LAKES | 4620G | 1967, 1968 & 1969 |
| 73-I-4 | MONTREAL LAKE SOUTH | 4619G | 1967, 1968 & 1969 |
| 73-I-5 | MONTREAL LAKE NORTH | 4609G | 1967 |
| 73-I-6 | MEEYOMOOT LAKE | 4610G | 1967 |
| 73-I-7 | LITTLE BEAR LAKE | 4611G | 1967 |
| 73-I-8 | BIG SANDY LAKE | 4612G | 1967 |
| 73-I-9 | (No Title) | 4602G | 1966 & 1967 |
| 73-I-10 | DOWD LAKES | 4601G | 1966 & 1967 |
| 73-I-11 | ENNIS LAKE | 4600G | 1966 & 1967 |
| 73-I-12 | VAREY LAKE | 4599G | 1966 & 1967 |
| 73-I-13 | MEYAKUMEW LAKE | 4589G | 1966 & 1967 |
| 73-I-14 | MEEYOMOOT BAY | 4590G | 1966 & 1967 |
| 73-I-15 | WAPAWEKKA LAKE WEST | 4591G | 1966 & 1967 |
| 73-I-16 | WAPAWEKKA LAKE EAST | 4592G | 1966 & 1967 |
| 73-J-1 | CREAN LAKE | 4618G | 1967, 1968 & 1969 |
| 73-J-2 | STRANGE LAKE | 4617G | 1967, 1968 & 1969 |

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|---|---|---|---|
| 73-J-3 | TAGGART LAKE | 576G | 1952 |
| 73-J-4 | GREEN LAKE SOUTH | 577G | 1952 |
| 73-J-5 | GREEN LAKE NORTH | 578G | 1952 |
| 73-J-6 | SLED LAKE | 579G | 1952 |
| 73-J-7 | CLARKE LAKE | 4607G | 1967 |
| 73-J-8 | WASSEGAM LAKE | 4608G | 1967 |
| 73-J-9 | RANDALL LAKE | 4598G | 1966 & 1967 |
| 73-J-10 | SMOOTHSTONE LAKE | 4597G | 1966 & 1967 |
| 73-J-11 | DORE LAKE SOUTH | 568G | 1952 |
| 73-J-12 | AUBICHON LAKE | 569G | 1952 |
| 73-J-13 | DUROCHER LAKE | 570G | 1952 |
| 73-J-14 | DORE LAKE NORTH | 571G | 1952 |
| 73-J-15 | SWAN LAKES | 4587G | 1966 & 1967 |
| 73-J-16 | RANDALL RIVER | 4588G | 1966 & 1967 |
| 73-K-1 | MEADOW LAKE | 580G | 1952 |
| 73-K-2 | RAPID VIEW | 581G | 1952 |
| 73-K-3 | MAKWA LAKE | 582G | 1952 |
| 73-K-4 | MINISTIKWAN LAKE | 583G | 1952 |
| 73-K-5 | PIERCELAND | 584G | 1952 |
| 73-K-6 | GOODSOIL | 585G | 1952 |
| 73-K-7 | DORINTOSH | 586G | 1952 |
| 73-K-8 | ISLAND HILL | 587G | 1952 |
| 73-K-9 | WATERHEN LAKE | 572G | 1952 |
| 73-K-10 | FLOTTEN LAKE | 573G | 1952 |
| 73-K-11 | MUSKEG LAKE | 574G | 1952 |
| 73-K-12 | COLD RIVER | 575G | 1952 |
| 73-K-13 | PRIMROSE LAKE | 556G | 1952 |
| 73-K-14 | KESATASEW LAKE | 557G | 1952 |
| 73-K-15 | LOST LAKE | 558G | 1952 |
| 73-K-16 | KEELEY LAKE | 559G | 1952 |
| 73-N-1 | CANOE LAKE | 552G | 1952 |
| 73-N-2 | JUGGINS CREEK | 553G | 1952 |
| 73-N-3 | CARLTON LAKE | 554G | 1952 |
| 73-N-4 | CALDER RIVER | 555G | 1952 |
| 73-N-5 | WATAPI LAKE | 305G | 1952 |
| 73-N-6 | NIPIN LAKE | 306G | 1952 |
| 73-N-7 | McCUSKER LAKE | 307G | 1952 |
| 73-N-8 | APPS LAKE | 494G | 1952 |
| 73-N-9 | KAZAN LAKE | 495G | 1952 |
| 73-N-10 | NISKA LAKE | 319G | 1952 |
| 73-N-11 | VERMETTE LAKE | 320G | 1952 |
| 73-N-12 | McALISTER LAKE | 321G | 1952 |
| 73-N-13 | GRAHAM LAKE | 322G | 1952 |
| 73-N-14 | MICHEL | 323G | 1952 |
| 73-N-15 | DILLON | 324G | 1952 |
| 73-N-16 | BUFFALO NARROWS | 496G | 1952 |
| 73-O-1 | MOOSE PORTAGE | 4817G | 1966 to 1969 |
| 73-O-2 | McLURG CREEK | 4816G | 1966 to 1969 |
| 73-O-3 | LAC LA-PLONGE | 560G | 1952 |
| 73-O-4 | LA-PLONGE | 561G | 1952 |
| 73-O-5 | ILE-A-LA-CROSSE | 562G | 1952 |
| 73-O-6 | CINDER LAKE | 563G | 1952 |
| 73-O-7 | AGUMIK LAKE | 4806G | 1968 & 1969 |
| 73-O-8 | BAR LAKE | 4807G | 1968 & 1969 |
| 73-O-9 | SANDFLY LAKE | 4797G | 1968 & 1969 |
| 73-O-10 | PINEHOUSE LAKE | 4796G | 1968 & 1969 |
| 73-O-11 | ALSTEAD LAKE | 564G | 1952 |

| | | | |
|---|---|---|---|
| 73-O-12 | ABITAU LAKE | 565G | 1952 |
| 73-O-13 | SHAGWENAW LAKE | 566G | 1952 |
| 73-O-14 | DIPPER LAKE | 567G | 1952 |
| 73-O-15 | BENTLEY BAY | 4786G | 1968 & 1969 |
| 73-O-16 | BELANGER | 4787G | 1968 & 1969 |
| 73-P-1 | CARTIER LAKE | 4821G | 1952 |
| 73-P-2 | HUNTER BAY | 4820G | 1966 to 1969 |
| 73-P-3 | LA RONGE | 4819G | 1966 to 1969 |
| 73-P-4 | MORIN LAKE | 4818G | 1966 to 1969 |
| 73-P-5 | CLAM LAKE | 4808G | 1968 & 1969 |
| 73-P-6 | NEMEIBEN LAKE | 4809G | 1953 |
| 73-P-7 | STANLEY | 4810G | 1953 |
| 73-P-8 | NISTOWIAK LAKE | 4811G | E ½ 1957<br>W ½ 1953 |
| 73-P-9 | GUNCOAT BAY | 4801G | E ½ 1957<br>W ½ 1953 |
| 73-P-10 | OTTER LAKE | 4800G | 1953 |
| 73-P-11 | BIRCH RAPIDS | 4799G | 1958 |
| 73-P-12 | BLACK BEAR ISLAND LAKE | 4798G | 1968 & 1969 |
| 73-P-13 | EULAS LAKE | 4788G | 1958 |
| 73-P-14 | McTAVISH LAKE | 4789G | 1958 |
| 73-P-15 | FORBES LAKE | 4790G | 1957 |
| 73-P-16 | SETTEE LAKE | 4791G | 1968 & 1969 |
| 74-A-1 | MARIBELLI LAKE | 2839G | 1964 |
| 74-A-2 | PAULL LAKE | 2838G | 1964 |
| 74-A-3 | NAGLE LAKE | 2837G | 1964 |
| 74-A-4 | HEWETSON LAKE | 2836G | 1964 |
| 74-A-5 | PYLYPOW LAKE | 2820G | 1964 |
| 74-A-6 | BARNETT LAKE | 2821G | 1964 |
| 74-A-7 | ROTTENSTONE LAKE | 2822G | 1964 |
| 74-A-8 | HICKSON LAKE | 2823G | 1964 |
| 74-A-9 | DECEPTION LAKE | 2807G | 1964 |
| 74-A-10 | DOBBIN LAKE | 2806G | 1964 |
| 74-A-11 | MIDDLE FOSTER LAKE | 2805G | 1964 |
| 74-A-12 | DALY LAKE | 2804G | 1964 |
| 74-A-13 | COSTIGAN LAKE | 2788G | 1964 |
| 74-A-14 | BURBIDGE LAKE | 2789G | 1964 |
| 74-A-15 | PENDLETON LAKE | 2790G | 1964 |
| 74-A-16 | JEWELL LAKE | 2791G | 1964 |
| 74-B-1 | GEORGE LAKE | 2835G | 1964 |
| 74-B-2 | CUP LAKE | 2834G | 1964 |
| 74-B-3 | STUDER LAKE | 2833G | 1964 |
| 74-B-4 | LITTLE FLATSTONE LAKE | 2832G | 1964 |
| 74-B-5 | GILLIES LAKE | 2816G | 1964 |
| 74-B-6 | PORTER LAKE | 2817G | 1964 |
| 74-B-7 | COMPLEX LAKE | 2818G | 1964 |
| 74-B-8 | NORBERT LAKE | 2819G | 1964 |
| 74-B-9 | SMALLEY LAKE | 2803G | 1964 |
| 74-B-10 | BOFFA LAKE | 2802G | 1964 |
| 74-B-11 | GRAND RAPIDS | 2801G | 1964 |
| 74-B-12 | HEDDERY LAKE | 2800G | 1964 |
| 74-B-13 | BLACK BIRCH LAKE | 2784G | 1964 |
| 74-B-14 | GWILLIM LAKE | 2785G | 1964 |
| 74-B-15 | DESNOMIE LAKES | 2786G | 1964 |
| 74-B-16 | HAULTAIN LAKE | 2787G | 1964 |
| 74-C-1 | SINGLETON LAKE | 2831G | 1964 |
| 74-C-2 | McCOY LAKE | 2830G | 1964 |

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|---|---|---|---|
| 74-C-3 | HAY POINT | 2829G | 1964 |
| 74-C-4 | McADAM LAKE | 2828G | 1964 |
| 74-C-5 | GARSON LAKE | 2812G | 1964 |
| 74-C-6 | McLEAN LAKE | 2813G | 1964 |
| 74-C-7 | McANEELEY BAY | 2814G | 1964 |
| 74-C-8 | FROBISHER LAKE | 2815G | 1964 |
| 74-C-9 | JOSEPHSON LAKE | 2799G | 1964 |
| 74-C-10 | TURNOR LAKE | 2798G | 1964 |
| 74-C-11 | McLEAN RIVER | 2797G | 1964 |
| 74-C-12 | WALLIS BAY | 2796G | 1964 |
| 74-C-13 | HEISE LAKE | 2780G | 1964 |
| 74-C-14 | TOCKER LAKE | 2781G | 1964 |
| 74-C-15 | PARKER BAY | 2782G | 1964 |
| 74-C-16 | McARTHER LAKE | 2783G | 1964 |
| 74-F-1 | NEFF LAKE | 2767G | 1963 |
| 74-F-2 | PICKFORD LAKE | 2766G | 1963 |
| 74-F-3 | DESCHARME LAKE | 2765G | 1963 |
| 74-F-4 | SIMONSON LAKE | 2764G | 1963 |
| 74-F-5 | FIREBAG LAKE | 2748G | 1963 |
| 74-F-6 | PRESTON LAKE | 2749G | 1963 |
| 74-F-7 | LANGLEY LAKE | 2750G | 1963 |
| 74-F-8 | MONTGRAND LAKE | 2751G | 1963 |
| 74-F-9 | WOLVERNAN LAKES | 2735G | 1963 |
| 74-F-10 | KOOP LAKE | 2734G | 1963 |
| 74-F-11 | FORREST LAKE | 2733G | 1963 |
| 74-F-12 | WENGER LAKE | 2732G | 1963 |
| 74-F-13 | SMART LAKE | 2716F | 1963 |
| 74-F-14 | MINTO LAKE | 2717G | 1963 |
| 74-F-15 | HOOK LAKE | 2718G | 1963 |
| 74-F-16 | HALL LAKE | 2719G | 1963 |
| 74-G-1 | GRASSICK LAKE | 2771G | 1963 |
| 74-G-2 | AMERICAN LAKE | 2770G | 1963 |
| 74-G-3 | ESKER LAKE | 2769G | 1963 |
| 74-G-4 | NYBERG LAKE | 2768G | 1963 |
| 74-G-5 | DUFFERIN LAKE | 2752G | 1963 |
| 74-G-6 | WARNES LAKE | 2753G | 1963 |
| 74-G-7 | ISPATINOW ISLAND | 2754G | 1963 |
| 74-G-8 | MacINTYRE LAKE | 2755G | 1963 |
| 74-G-9 | MIDDLETON LAKE | 2739G | 1963 |
| 74-G-10 | WEITZEL LAKE | 2738G | 1963 |
| 74-G-11 | ISOLATION LAKE | 2737G | 1963 |
| 74-G-12 | LISGAR LAKES | 2736G | 1963 |
| 74-G-13 | NORSEMAN LAKE | 2720G | 1963 |
| 74-G-14 | MAYSON LAKE | 2721G | 1963 |
| 74-G-15 | ENGEMANN LAKE | 2722G | 1963 |
| 74-G-16 | TIMSON LAKE | 2723G | 1963 |
| 74-H-1 | BAILEY LAKE | 2775G | 1963 |
| 74-H-2 | ALEXANDER LAKE | 2774G | 1963 |
| 74-H-3 | LOCKWOOD LAKE | 2773G | 1963 |
| 74-H-4 | ZIMMER LAKE | 2772G | 1963 |
| 74-H-5 | COLQUHOUN LAKE | 2756G | 1963 |
| 74-H-6 | RUSSELL LAKE | 2757G | 1963 |
| 74-H-7 | HODGES LAKE | 2758G | 1963 |
| 74-H-8 | BECKETT LAKE | 2759G | 1963 |
| 74-H-9 | McDOWELL LAKE | 2743G | 1963 |
| 74-H-10 | KEEFE LAKE | 2742G | 1963 |
| 74-H-11 | HUGHES LAKE | 2741G | 1963 |

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|---|---|---|---|
| 74-H-12 | FRIESEN LAKE | 2740G | 1963 |
| 74-H-13 | RABINOVITCH LAKE | 2724G | 1963 |
| 74-H-14 | KIRSCH LAKE | 2725G | 1963 |
| 74-H-15 | CLOSE LAKE | 2726G | 1963 |
| 74-H-16 | UMPHERVILLE LAKE | 2727G | 1963 |
| 74-I-1 | WATERBURY LAKE | 2711G | 1962 |
| 74-I-2 | BLIXRUD LAKE | 2710G | 1962 |
| 74-I-3 | NICHOL LAKE | 2709G | 1962 |
| 74-I-4 | LITTLE CREE RIVER | 2708G | 1962 |
| 74-I-5 | RAPID RIVER | 2692G | 1962 |
| 74-I-6 | PASFIELD LAKE | 2693G | 1962 |
| 74-I-7 | UNKNOWN LAKE | 2694G | 1962 |
| 74-I-8 | HENDAY LAKE | 2695G | 1962 |
| 74-I-9 | WATERFOUND RIVER | 2679G | 1962 |
| 74-I-10 | FORSYTH LAKE | 2678G | 1962 |
| 74-I-11 | GRANGER LAKE | 2677G | 1962 |
| 74-I-12 | POITRAS LAKE | 2676G | 1962 |
| 74-I-13 | WAPATA LAKE | 2660G | 1962 |
| 74-I-14 | UMFREVILLE LAKE | 2661G | 1962 |
| 74-I-15 | ORR LAKE | 2662G | 1962 |
| 74-I-16 | KOSDAW LAKE | 2663G | 1962 |
| 74-J-1 | ROTARIU LAKE | 2707G | 1962 |
| 74-J-2 | SANDERSON LAKE | 2706G | 1962 |
| 74-J-3 | BERNARD LAKE | 2705G | 1962 |
| 74-J-4 | BRUDELL LAKE | 2704G | 1962 |
| 74-J-5 | SNARE LAKE | 2688G | 1962 |
| 74-J-6 | WEERES LAKE | 2689G | 1962 |
| 74-J-7 | BRUCE LAKE | 2690G | 1962 |
| 74-J-8 | THOMSON LAKE | 2691G | 1962 |
| 74-J-9 | McLEOD LAKE | 2675G | 1962 |
| 74-J-10 | BIRKBECK LAKE | 2674G | 1962 |
| 74-J-11 | LIVINGSTONE LAKE | 2673G | 1962 |
| 74-J-12 | BIRNEY LAKE | 2672G | 1962 |
| 74-J-13 | URTON LAKE | 2656G | 1962 |
| 74-J-14 | SQUIRREL LAKE | 2657G | 1962 |
| 74-J-15 | GARDIPEE LAKE | 2658G | 1962 |
| 74-J-16 | LAWRYSYN LAKE | 2659G | 1962 |
| 74-K-1 | McTAGGART LAKE | 2703G | 1962 |
| 74-K-2 | MILLARD LAKE | 2702G | 1962 |
| 74-K-3 | JAMES CREEK | 2701G | 1962 |
| 74-K-4 | LARTER CREEK | 2700G | 1962 |
| 74-K-5 | CLUFF LAKE | 2684G | 1962 |
| 74-K-6 | JOLLEY LAKE | 2685G | 1962 |
| 74-K-7 | PAYNE LAKE | 2686G | 1962 |
| 74-K-8 | KALLN LAKE | 2687G | 1962 |
| 74-K-9 | MORRISON LAKE | 2671G | 1962 |
| 74-K-10 | FIELD LAKE | 2670G | 1962 |
| 74-K-11 | CARSWELL LAKE | 2669G | 1962 |
| 74-K-12 | BARTLETT LAKE | 2668G | 1962 |
| 74-K-13 | DOWLER LAKE | 2652G | 1962 |
| 74-K-14 | SILVERTHORN LAKE | 2653G | 1962 |
| 74-K-15 | ATCHISON LAKE | 2654G | 1962 |
| 74-K-16 | DAVY LAKE | 2655G | 1962 |
| 74-N-1 | ARCHIBALD RIVER | 1200G | 1961 |
| 74-N-2 | CANTARA BAY | 1201G | 1961 |
| 74-N-3 | WILLIAM POINT | 1202G | 1961 |
| 74-N-4 | POINTE ENNUYEUSE | 1203G | 1961 |

| | | | |
|---|---|---|---|
| 74-N-5 | MAURICE BAY | 1204G | 1961 |
| 74-N-7 | CRACKINGSTONE | 1205G | 1961 |
| 74-N-8 | GOLDFIELDS | 1206G | 1961 |
| 74-N-9 | FORGET LAKE | 1207G | 1961 |
| 74-N-10 | URANIUM CITY | 1208G | 1961 |
| 74-N-11 | THLUICHO LAKE | 1209G | 1961 |
| 74-N-12 | HARPER LAKE | 1210G | 1961 |
| 74-N-13 | THAINKA LAKE | 1211G | 1961 |
| 74-N-14 | ZIN BAY | 1212G | 1961 |
| 74-N-15 | BURCHNALL LAKE | 1213G | 1961 |
| 74-N-16 | ENA LAKE | 1214G | 1961 |
| 74-O-1 | RIOU LAKE | 1215G | 1961 |
| 74-O-2 | ENGLER LAKE | 1216G | 1961 |
| 74-O-3 | RICHARDS LAKE | 1217G | 1961 |
| 74-O-4 | HELMER LAKE | 1218G | 1961 |
| 74-O-5 | ISLE BROCHET | 1219G | 1961 |
| 74-O-6 | FOND-DU-LAC | 1220G | 1961 |
| 74-O-7 | LOWE LAKE | 1221G | 1961 |
| 74-O-8 | WILEY LAKE | 1222G | 1961 |
| 74-O-9 | FONTAINE LAKE | 1223G | 1961 |
| 74-O-10 | OMAN LAKE | 1224G | 1961 |
| 74-O-11 | FORSYTH LAKE | 1225G | 1961 |
| 74-O-12 | NEVINS LAKE | 1226G | 1961 |
| 74-O-13 | DARDIER LAKE | 1227G | 1961 |
| 74-O-14 | CARCOUX LAKE | 1228G | 1961 |
| 74-O-15 | CHAPPUIS LAKE | 1229G | 1961 |
| 74-O-16 | SCOTT LAKE | 1230G | 1961 |
| 74-P-1 | CYPRIAN LAKE | 1231G | 1961 |
| 74-P-2 | PERCHING LAKE | 1232G | 1961 |
| 74-P-3 | FIR ISLAND | 1233G | 1961 |
| 74-P-4 | ELIZABETH FALLS | 1234G | 1961 |
| 74-P-5 | CLUT LAKES | 1235G | 1961 |
| 74-P-6 | LYTLE LAKE | 1236G | 1961 |
| 74-P-7 | HIGGINSON LAKE | 1237G | 1961 |
| 74-P-8 | PINKHAM LAKE | 1238G | 1961 |
| 74-P-9 | HERBERT LAKE | 1239G | 1961 |
| 74-P-10 | YOUNG LAKE | 1240G | 1961 |
| 74-P-11 | CHAMBEUIL LAKE | 1241G | 1961 |
| 74-P-12 | ASTROLABE LAKE | 1242G | 1961 |
| 74-P-13 | DODGE LAKE | 1243G | 1961 |
| 74-P-14 | SEGUIN LAKE | 1244G | 1961 |
| 74-P-15 | GASTE LAKE | 1245G | 1961 |
| 74-P-16 | OFFSET LAKE | 1246G | 1961 |

## AEROMAGNETIC

Scale: 1 inch=4 miles (1:253,440)

$1.00 each

Available only as blueline prints

| Map Area | Map Title | Map No. | Year |
|---|---|---|---|
| 63-E | PASQUIA HILLS | 7742G | 1967 to 1969 |
| 63-F | THE PAS | 7741G | 1965, 1967, 1968 |
| 63-K | CORMORANT LAKE | 7024G | 1962 |
| 63-L | AMISK LAKE | 7754G | 1967 to 1969 |
| 63-M | PELICAN NARROWS | 7764G | 1968 & 1969 |
| 63-N | KISSISSING | 7137G | 1964 |
| 64-D | REINDEER LAKE SOUTH | 7152G | 1964 |
| 64-E | REINDEER LAKE NORTH | 7289G | 1963 |
| 64-L | WOLLASTON LAKE | 7016G | 1962 |
| 64-M | PHELPS LAKE | 7023G | 1961 |
| 73-F | SAINT WALBURG | 7745G | 1967 to 1969 |
| 73-G | SHELLBROOK | 7744G | 1967 to 1969 |
| 73-H | PRINCE ALBERT | 7743G | 1967 to 1969 |
| 73-I | WAPAWEKKA | 7755G | 1967 to 1969 |
| 73-J | GREEN LAKE | 7231G | 1952, 1966 to 1969 |
| *73-K | WATERHEN RIVER | | 1952 |
| *73-N | BUFFALO NARROWS | | 1952 |
| 73-O | ILE-A-LA-CROSSE | 7235G | 1952, 1966, 1968, 1969 |
| 73-P | LAC LA RONGE | 8190G | 1953, 1957, 1958, 1966, 1968, 1969 |
| 74-A | FOSTER LAKE | 7153G | 1964 |
| 74-B | MUDJATIK | 7154G | 1964 |
| 74-C | LA LOCHE | 7155G | 1964 |
| 74-F | LLOYD LAKE | 7158G | 1963 |
| 74-G | CREE LAKE | 7157G | 1963 |
| 74-H | GEIKIE RIVER | 7156G | 1963 |
| 74-I | PASFIELD LAKE | 7017G | 1962 |
| 74-J | LIVINGSTONE LAKE | 7018G | 1962 |
| 74-K | WILLIAM RIVER | 7019G | 1962 |
| 74-N | TAZIN LAKE | 7020G | 1961 |
| 74-O | FOND-DU-LAC | 7021G | 1961 |
| 74-P | STONY RAPIDS | 7022G | 1961 |

*Office Compilation

## ELECTROMAGNETIC

Scale: 1 inch=½ mile (1:31,680)

$1.00 each

| Map Area | Map Title |
|---|---|
| Surveyed 1957 (Lithographed) | |
| 63-L-13-W | OSKIKEBUK LAKE W. |
| 73-P-1-E and part 73-I-16-NE | CARTIER LAKE E. |
| 73-P-1-W and part 73-I-16-NW | CARTIER LAKE W. |
| 73-P-2-E and part 73-I-15-NE | HUNTER BAY E. |
| 73-P-8-E | NISTOWIAK LAKE E. |
| 73-P-9-E | GUNCOAT BAY E. |
| 73-P-15-E | FORBES LAKE E. |
| 73-P-15-W | FORBES LAKE W. |
| 73-P-16-W | SETTEE LAKE W. |
| Surveyed 1958 (Lithographed) | |
| 64-D-13-E | WATHAMAN LAKE E. |
| 64-D-13-W | WATHAMAN LAKE W. |
| 64-D-14-E | OLIVER LAKE E. |
| 64-D-14-W | OLIVER LAKE W. |
| 64-D-15-W | PERRY LAKE W. |
| 73-P-11-E | TROUT LAKE E. |
| 73-P-11-W | TROUT LAKE W. |
| 73-P-13-E | EULAS LAKE E. |
| 73-P-13-W | EULAS LAKE W. |
| 73-P-14-W | McTAVISH LAKE W. |

## ELECTROMAGNETIC

(AFMAG)

Scale: 1:50,000

$1.00 each

| Map Area | Map Title | Map No. | Year |
|---|---|---|---|
| 74-N-7 | CRACKINGSTONE | 25,032G | 1968 |
| 74-N-8-W | GOLDFIELDS–WEST HALF | 25,031G | 1968 |
| 74-N-9-W | FORGET LAKE–WEST HALF | 25,034G | 1968 |
| 74-N-10 | URANIUM CITY | 25,033G | 1968 |

## SEISMIC

SC–SERIES (top Birdbear)

(4 Composite Seismic Maps)

Compiled by: C. H. Jackman

Scale: 1 inch=2 miles (1:126,720)

$5.00 each

These maps show the townships, sections, major towns, major topographic features, the defined pools and fields and all the wells in existence at the time the map was drawn. Well status is shown but no names or numbers are shown.

This is a series of time-structure maps on a seismic event near the top of the Devonian. The horizon shown is assumed to represent the Birdbear (Nisku).

The areas covered by these maps are the same as those described for the Regional Well Maps on page 16 of this catalogue. The date column refers to the date of publication or of the latest seismic revision.

| Map No. | Map Title | Date |
|---|---|---|
| SC 1 | SOURIS RIVER | Nov. 1972 |
| SC 2 | BIG MUDDY LAKE | Jan. 1973 |
| SC 5 | MOOSE MOUNTAIN | Jan. 1969 |
| SC 6 | LAKE OF THE RIVERS | Sept. 1968 |

**N–SERIES (top Palaeozoic)**

**(7 Composite Seismic Maps)**

**Scale: 1 inch=4 miles (1:253,440)**

**$5.00 each or $30.00 per set**

These maps show the townships, major towns, and major topographic features. Well status is shown but no names or numbers are given.

The areas covered by these maps are the same as those described for the Base Maps on page 35 of this catalogue.

| Map No. | Map Title | Wells Revised | Contours Revised |
|---|---|---|---|
| N-1 | REGINA | Sept. 1968 | Dec., 1968 |
| N-2 | SWIFT CURRENT | March, 1967 | April, 1965 |
| N-3 | YORKTON | March, 1967 | April, 1965 |
| N-4 | SASKATOON | March, 1967 | April, 1965 |
| N-5 | PRINCE ALBERT | June, 1971 | June, 1966 |
| N-6 | NORTH BATTLEFORD | March, 1967 | April, 1965 |
| N-7 | BUFFALO NARROWS | June, 1971 | April, 1965 |

**GRAVITY**

**(6 Composite Gravity Maps)**

**Scale: 1 inch=4 miles (1:253,440)**

**$5.00 each**

These maps have been compiled from gravity data submitted to the Department by various Crown permit holders. The information has now attained non-confidential status.

The areas covered by these maps is the same as that covered by the Base Maps on page 35 of this catalogue. The date column refers to the date of compilation or latest revision.

| Map No. | Map Title | Date | Compiled by |
|---|---|---|---|
| G-1 | REGINA | June, 1971 | J.V. Suryam |
| G-2 | SWIFT CURRENT | March, 1971 | J.V. Suryam |
| G-3 | YORKTON | June, 1971 | K.F. Standing |
| G-4 | SASKATOON | March, 1971 | J.V. Suryam |
| G-5 | PRINCE ALBERT | May, 1971 | K.F. Standing |
| G-6 | NORTH BATTLEFORD | June, 1971 | K.F. Standing |

## MAGNETIC

Scale: 1 inch=8 miles (1:506,880)

$5.00

This map has been compiled from magnetic data submitted to the Department by the various Crown permit holders in compliance with the regulations under The Mineral Resources Act. The information presented has now attained non-confidential status.

| | | |
|---|---|---|
| N-14 | REGIONAL MAGNETIC MAP OF SOUTHERN SASKATCHEWAN<br>Townships 1-46; Manitoba border to the Alberta border. | Oct., 1971 |

Scale: 1 inch=20 miles (1:1,267,200)

$3.00 each

These five maps were computer–plotted in 1972, using data compiled from 1962 to 1972. Data covering the years 1973 to 1975 is available but has not yet been plotted on a map. A 100 gamma contour interval was employed. These maps cover both Precambrian and Sedimentary areas of the province.

| Map No. | Map Title | Date |
|---|---|---|
| N-15 | F-ISODYNE (Total Field) | 1972 |
| N-16 | Z-ISODYNE (Vertical Component) | 1972 |
| N-17 | H-ISODYNE (Horizontal Component) | 1972 |
| N-18 | I-ISOCLINE (Dip) | 1972 |
| N-19 | D-ISOGONE (Declination) | 1972 |

# MAPS AND REPORTS OF GEOPHYSICAL SURVEYS

(Submitted by disposition holders)

These maps and reports contain non-confidential geophysical data, relative to Precambrian and Sedimentary areas, which has been submitted to the department by disposition holders under The Mineral Resources Act.

Information, current price lists, and index maps may be obtained from the Publications Office, at cost indicated hereunder:

PRICE LIST OF GEOPHYSICAL MAPS AND REPORTS IN THE PRECAMBRIAN AREA OF SASKATCHEWAN (1970) ..... $ 1.00

PRICE LIST OF GEOPHYSICAL MAPS AND REPORTS IN THE SEDIMENTARY AREA OF SASKATCHEWAN:

PART I: SEISMIC STRUCTURE CONTOUR MAPS AND REPORTS (1971) ..... $ 1.50
PART II: GRAVITY, MAGNETIC AND MISCELLANEOUS MAPS AND REPORTS (1971) .... $ 1.50

SUPPLEMENTARY PRICE LIST OF MAPS AND REPORTS IN THE SEDIMENTARY AREA OF SASKATCHEWAN, (1975) ..... $ 1.50

Confidential and non-confidential coverage is indicated on each of the following three maps. These maps cover only the sedimentary area of the province:

INDEX MAP OF SEISMIC STRUCTURE CONTOUR MAPS (1975),
Scale: 1 inch = 16 miles (1:1,013,760) ..... No charge

INDEX MAP OF GRAVITY METER CONTOUR MAPS (1975),
Scale: 1 inch = 16 miles (1:1,013,760) ..... No charge

INDEX MAP OF AEROMAGNETIC AND MAGNETOMETER CONTOUR MAPS (1975),
Scale: 1 inch = 16 miles (1:1,013,760) ..... No charge

# AIRBORNE GEOPHYSICAL INDEX

## PRECAMBRIAN AREA

Compiled by W.J. Schuster, 1972; Revised by J.D. George, 1975

These index maps of northern Saskatchewan show the location of airborne geophysical surveys submitted as assessment work for the Precambrian area. Areas surveyed have been outlined on these maps and numbered according to the file numbering system used by the department in other indexes to assessment work. Accompanying this series is an index listing the particulars of each survey including the name of the property and its owner, the geophysical surveyor, the date flown, instrumentation and flight-line data. The status of each file, either open or confidential, is given.

For more detailed information the reader should consult the original maps and reports in the assessment files at the offices of the Department of Mineral Resources.

PRICE: Complete set of 3 index maps, lithographed. Scale: one inch=24 miles (1:1,520,640) with index $5.00

Individual index maps, blueline. Scale: one inch=12 miles (1:760,720) . . . . . $2.00 each

D-386 INDEX MAP OF AIRBORNE MAGNETIC SURVEYS

D-387 INDEX MAP OF AIRBORNE RADIOMETRIC SURVEYS

D-388 INDEX MAP OF AIRBORNE ELECTRO-MAGNETIC SURVEYS

# CONDUCTIVITY ANOMALY LOCATIONS MAPS

Scale: 1:250,000

$ 1.00 each

Compiled: March 1, 1973

The information shown on these maps has been compiled from airborne electromagnetic surveys submitted to the department by holders of mineral dispositions. This data is now non-confidential. Only the locations of conductors have been shown on these maps. No attempt has been made to classify or interpret the anomalies. A great variety of instruments and flying heights were used in the original surveys and this may cause geologically similar areas to exhibit different responses. For more detailed information the reader should consult the "AIRBORNE GEOPHYSICAL INDEX" or the original maps and reports in the assessment files at the offices of the Department of Mineral Resources.

| | |
|---|---|
| 63-L | AMISK LAKE |
| 63-M | PELICAN NARROWS |
| 64-D | REINDEER LAKE SOUTH |
| 64-E | REINDEER LAKE NORTH |
| 64-L | WOLLASTON LAKE |
| 64-M | PHELPS LAKE |
| 73-O | ILE-A-LA-CROSSE |
| 73-P | LAC LA RONGE |
| 74-A | FOSTER LAKE |
| 74-B | MUDJATIK |
| 74-C | LA LOCHE |
| 74-F | LLOYD LAKE |
| 74-G | CREE LAKE |
| 74-H | GEIKIE RIVER |
| 74-I | PASFIELD LAKE |
| 74-N | TAZIN LAKE |
| 74-O | FOND-DU-LAC |
| 74-P | STONY RAPIDS |

# INDEX TO ASSESSMENT WORK

$ 2.00 each

This index is designed to inform the users, particularly those interested in Precambrian exploration, of the types of data available to them in the files of the Precambrian Geology Division of the Department of Mineral Resources.

The files which have been indexed are those submitted to the department by industry engaged in geological and geophysical exploration in Northern Saskatchewan.

Entries in the index are grouped according to the numeric and alphabetic system of the National Topographic System grid.

A property index provides a listing of claim names, claim block numbers, permits, mineral leases, concessions and properties which cannot be included in any of these groups.

The index is divided into three parts according to the boundaries of the three mining districts of La Ronge, Reindeer and Athabasca. (See Figure 6 for the area of the mining districts).

INDEX TO ASSESSMENT WORK IN THE LA RONGE MINING DISTRICT OF SASKATCHEWAN, compiled by M.A. Fuzesy, 1974.

INDEX TO ASSESSMENT WORK IN THE REINDEER MINING DISTRICT OF SASKATCHEWAN, compiled by M.A. Fuzesy, 1973.

INDEX TO ASSESSMENT WORK IN THE ATHABASCA MINING DISTRICT OF SASKATCHEWAN, compiled by M.A. Fuzesy, 1975.

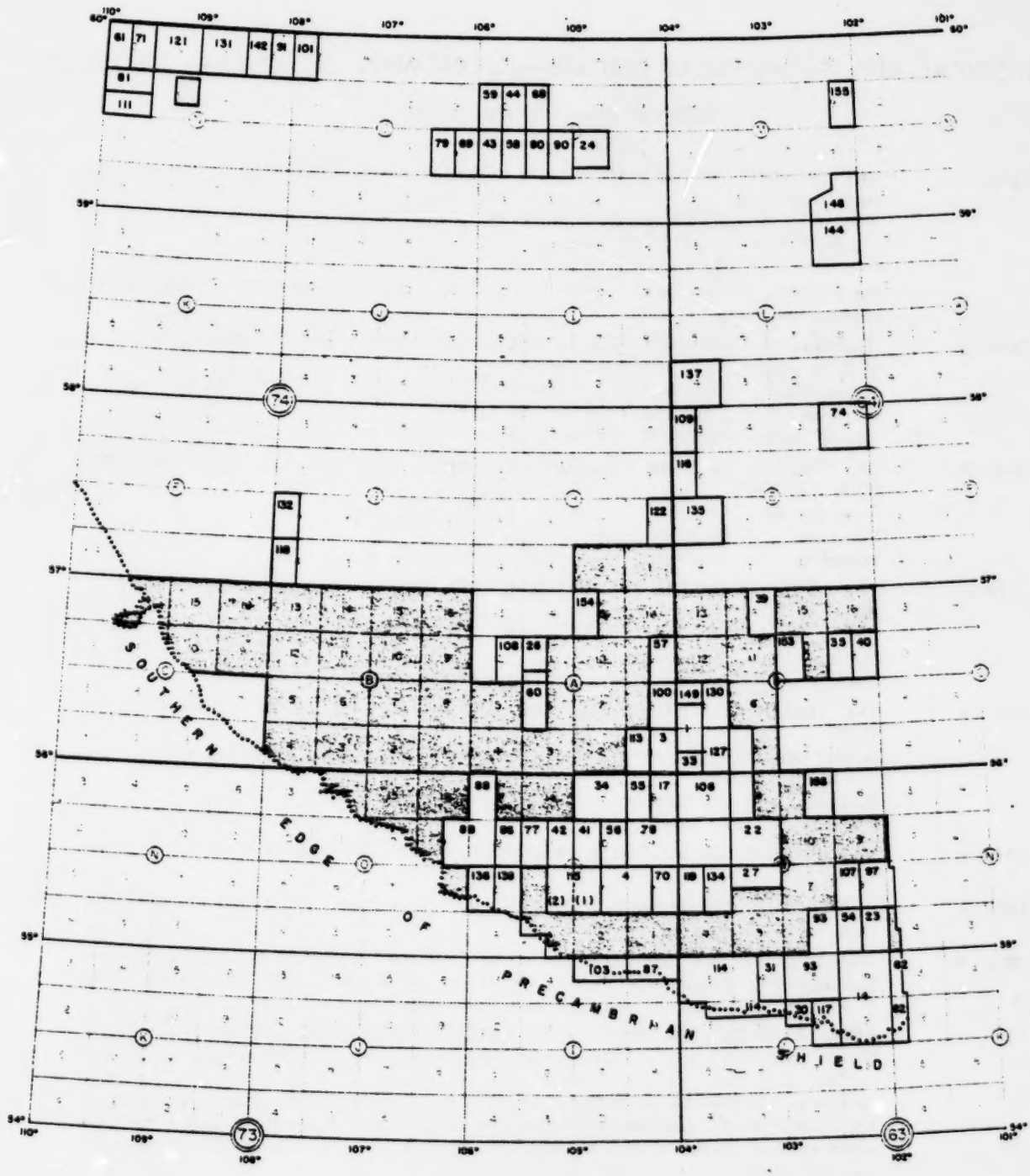


**Figure 14 – INDEX MAP OF BEDROCK GEOLOGICAL MAPPING IN THE PRECAMBRIAN SHIELD AREA**

Published reports are indicated by number in open areas. Shaded areas represent reports in press or in preparation which are reported on in the interim annual Summaries (see pages 80, 81).

## GEOLOGICAL AND GEOPHYSICAL REPORTS—DEPARTMENT OF MINERAL RESOURCES

$2.00 each unless otherwise indicated

*(See Figure 14)*

**DMR. 1** **THE GEOLOGY OF THE WADDY LAKE AREA** (Preliminary Report) by A.R. Byers 1948. (Reprinted 1970)
Area of report: 64-D-4-W and 64-D-5-W (parts) between 56°06′ to 56°22′ N. Lat. and 103°44′ to 104°00′ W. Long.
Map scale: 1:63,360. Black and White
Precambrian. Metasediments, volcanics, intrusive rocks. Prospecting. Pyrrhotite, pyrite, chalcopyrite, sphalerite, gold.

**DMR. 2** **RADIOACTIVE OCCURRENCES IN THE BLACK LAKE AREA** (Preliminary Report) by M. E. Hriskevich, 1949. (Reprinted 1969)
Area of report: 74-P-6 (part) in the vicinity 59°30′ N. Lat. and 105°00′ W. Long.
A number of small maps are included in the text.
General geology. Pitchblende, radioactive pegmatities, allanite, zircon, uraninite.

**DMR. 3** **THE GEOLOGY OF THE WINDRUM LAKE AREA**, Saskatchewan, by M.L. Miller. 1949. (Reprinted 1967)
Area of report: 74-A-1-E.
Map scale: 1:63,360. Black and White.
Precambrian. Metasediments, volcanics, intrusive rocks. Gold, sulphides.

**DMR. 4** **THE GEOLOGY OF THE STANLEY MAP AREA**, by J.B. Mawdsley and F.F. Grout, 1951. (Reprinted 1971)
Area of report: 73-P-7-E and 73-P-8-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, volcanics, intrusive rocks. Radioactive pegmatites.

**DMR. 5** **THE GEOLOGY OF THE CHARLEBOIS LAKE AREA** by J.B. Mawdsley, 1959. (Reprinted 1970)
Area of report: 74-P-6-E and 74-P-7-W (parts) in the vicinity of 59°24′ N. Lat. and 104°52′ W. Long.
Map scale: 1:31,680. Black and White.
Precambrian. Metasediments, intrusive rocks. Uraninite.

**DMR. 6** **NATURAL SODIUM SULPHATE IN SASKATCHEWAN**, Second Edition, by R.V. Tomkins, 1955.

**DMR. 7** **CLAY RESOURCES OF SASKATCHEWAN**, by W. G. Worcester, 1950. (Reprinted 1976)
Research, exploration, 1921 to 1947.

**DMR. 8** **THE GEOLOGY OF THE SOUTHERN PART OF THE CYPRESS HILLS**, Southwestern Saskatchewan, (Preliminary Report) by Loris S. Russell, 1948. (Reprinted 1970)
Stratigraphy, palaeontology, structure, economic geology.

**DMR. 9** **ANNOTATED BIBLIOGRAPHY OF SASKATCHEWAN GEOLOGY (1823–1970)** by W. O. Kupsch. (Revised Edition 1973). Replaces the revised edition of Report No. 9, published in 1967 ..... $5.00
References alphabetically by author. Subject indices. Geographic, geological maps; well logs. An index map of Saskatchewan according to the National Topographic System has been added to facilitate the location of geographic areas. A geological map of Saskatchewan has also been added.

**DMR. 10** **ORDOVICIAN AND SILURIAN STRATIGRAPHY OF EAST CENTRAL SASKATCHEWAN**, by W.O. Kupsch, 1952. (Reprinted 1969).
Palaeontology. Economic prospects.

**DMR. 11** **MAGNESIUM IN SASKATCHEWAN**, by R.V. Tomkins, 1953. (Reprinted 1969)
Sedimentary areas.

**DMR. 12** **BITUMINOUS SANDS IN TILL OF THE PETER POND LAKE AREA**, Saskatchewan, by W. O. Kupsch, 1954. (Reprinted 1967)
Pleistocene. Bituminous sands. Athabasca Tar Sands.

*DMR. 13 **PRELIMINARY REPORT OF THE JURASSIC SEDIMENTS OF SASKATCHEWAN,** by D. R. Francis, 1954. Superseded by DMR. 18.
Correlations, Economic geology.

DMR. 14 **GEOLOGY AND MINERAL DEPOSITS OF THE AMISK–WILDNEST LAKE AREAS,** Saskatchewan, by A. R. Byers and C. D. A. Dahlstrom, 1954. (Reprinted 1970)
Area of report: 63-L-9 and 63-L-16.
Map scale: 1:63,360. Two coloured maps.
1:126,720. Structure, black and white.
Precambrian. Metasediments, volcanics, intrusive rocks. Gold, sulphides, tungsten, asbestos, radioactive pegmatites.

DMR. 15 **SUB-SURFACE EXPLORATION GEOLOGY AND DEVONIAN PROSPECTS OF THE MEADOW LAKE, PRINCE ALBERT, YORKTON AREA,** Saskatchewan, by D.B. MacLennan and M. Kamen–Kay, 1954. (Reprinted 1970)
Oil possibilities.

DMR.16 **PUMICITE IN SASKATCHEWAN,** by G.S. Crawford, 1955 .....$1.00
Exploration, research. Volcanic ash.

DMR. 17 **THE GEOLOGY OF THE SETTEE LAKE AREA** (East Half), by A.J. Budding, 1955.
Area of report: 73-P-16-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, volcanics, intrusive rocks. Chalcopyrite.

DMR. 18 **JURASSIC STRATIGRAPHY OF THE WILLISTON BASIN AREA,** by David R. Francis, 1956. (Reprinted 1964). Supersedes DMR. 13.
Gypsum Spring, Piper, Rierdon, Swift, Morrison, and Sundance Formations.

DMR. 19 **MISSISSIPPIAN ROCKS AND OILFIELDS IN SOUTHEASTERN SASKATCHEWAN,** by J.G.C.M. Fuller, 1956. (Reprinted 1969)
Mesozoic. Madison Group, Williston Basin.

DMR.20 **GEOLOGY OF THE EASTERN CYPRESS HILLS** (Knollys and Dollard Quadrangles) Saskatchewan, by W.O. Kupsch, 1956. (Reprinted 1965)
Area of report: 72-F-7 and 72-F-10.
Map scale: 1:50,000. Four coloured maps.
Cretaceous, Tertiary. Bearpaw, Eastend, Whitemud, Frenchman, Ravenscrag, Cypress Hills Formations. Vertebrate remains. Lignites, uranium.

*DMR. 21 **GLACIAL GEOLOGY OF THE MOOSE MOUNTAIN AREA,** Saskatchewan, by E. A. Christiansen, 1956. (Reprinted 1963)
Area of report: 62-E and south quarter of 62-L.
Map Scale: 1:316,800.
Northwest ice movement. Weyburn lobe, Weyburn lowland.

DMR. 22 **THE GEOLOGY OF THE REINDEER RIVER AREA,** by A. J. Budding and S. J. T. Kirkland, 1956. (Reprinted 1967).
Area of report: 63-M-11.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, volcanics, intrusive rocks, migmatites. Prospecting recommendations.

DMR. 23 **THE GEOLOGY OF THE MARI LAKE AREA,** Northeastern Saskatchewan, by R.L. Cheesman, 1956. (Reprinted 1970)
Area of report: 63-M-1-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, volcanics, intrusive rocks, Kisseynew Gneiss, Roberts Bay Fault.

DMR. 24 **THE GEOLOGY OF THE CHARLEBOIS LAKE AREA,** Northern Saskatchewan, by J.B. Mawdsley, 1957. (Reprinted 1967)
Area of report: 74-A-11-W (part), between 56°35' and 56°45' N. Lat. and 105°15' and 105°30' W. Long.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, intrusives, radioactive zones.

*Out of print – May be consulted at the Publications Office.

**DMR. 25** **CORRELATIONS OF MIDDLE DEVONIAN ROCKS IN WESTERN SASKATCHEWAN,** by C.T. Walker, 1957. (Reprinted 1965).
Ashern, Winnipegosis, Dawson Bay, Lower Souris River, Meadow Lake Formations. Prairie Evaporite. Shale, dolomitic limestone, potash. Red beds, evaporites.

**DMR. 26** **THE GEOLOGY OF THE MIDDLE FOSTER LAKE AREA,** Northern Saskatchewan, by J.B. Mawdsley, 1957. (Reprinted 1972)
Area of report: 74-P-7 (part), between 59°17′ and 59°30′ N. Lat. and 104°35′ and 105°00′ W. Long.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, granitized sediments, granodiorite intrusions. Radioactive pegmatites.

**DMR. 27** **THE GEOLOGY OF THE MANAWAN LAKE AREA, (North Half),** Saskatchewan, by S.J.T. Kirkland, 1957.
Area of report: 63-M-6-N.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, volcanics, intrusive rocks, migmatites. Sulphides. Radioactive pegmatites.

**DMR. 28** **COMPARISON OF ELECTROMAGNETIC GEOPHYSICAL PROSPECTING METHODS OVER KNOWN SULPHIDE ZONES IN THE FLIN FLON AREA,** Saskatchewan, by A.R. Byers, 1957.
Point electrodes, horizontal coils, vertical coils.

**DMR. 29** **AN INVESTIGATION INTO THE GEOLOGICAL SIGNIFICANCE OF SOME MAGNETIC ANOMALIES IN THE LAC LA RONGE AREA OF NORTHERN SASKATCHEWAN,** by W.J. Pearson, 1957.
Area of report: 73-P (parts).
Basic, ultrabasic intrusives. Pyrrhotite, magnetite.

**DMR. 30** **GEOLOGY AND MINERAL DEPOSITS OF THE HANSON LAKE AREA, (Northwest Quarter),** Saskatchewan, by A.R. Byers, 1957.
Area of report: 63-L-10-NW.
Map scale: 1:31,680. Coloured.
Precambrian. Metavolcanics, metasediments, intrusives, Ordovician dolomite, sandstone. Chalcopyrite, sphalerite, galena.

**DMR. 31** **THE GEOLOGY OF THE DESCHAMBAULT LAKE AREA (East Half),** Saskatchewan, by S.J.T. Kirkland, 1958. (Reprinted 1967)
Area of report: 63-L-14-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, migmatites, intrusives, Sulphides. Prospecting recommendations.

**DMR 32** **GLACIAL GEOLOGY OF THE SWIFT CURRENT AREA, Saskatchewan,** by E.A. Christiansen, 1959. (Reprinted 1969)
Area of report: 72-J-W.
Map scale: 1:253,440.
Wisconsin. Tills, silts, clays, loess.

**DMR. 33** **THE GEOLOGY OF THE BRABANT LAKE AREA (Waddy Lake, Southwest Quarter),** Saskatchewan, by S.J.T. Kirkland, 1959. (Reprinted 1967)
Area of report: 64-D-4-SW (part), between 56°00′ and 56°08′ N. Lat. and 103°40′ and 104°00′ W. Long.
Map scale: 1:31,680. Coloured.
Precambrian. Metasediments, igneous rocks. Prospecting.

**DMR. 34** **THE GEOLOGY OF THE FORBES LAKE AREA,** Saskatchewan, by W.J. Pearson and E. Froese, 1959. (Reprinted 1967)
Area of report: 73-P-15.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, metavolcanics, igneous rocks. Pyrrhotite, copper. Prospecting.

DMR. 35 **THE GEOLOGY OF THE WAPUS BAY AREA, (West Half),** Saskatchewan, by R.L. Cheesman, 1959. (Reprinted 1969)
Area of report: 64-D-9-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metavolcanics, metasediments, igneous rocks. Uranium-bearing pegmatites, molybdenite, chalcopyrite, pyrrhotite.

DMR. 36 **MINERAL OCCURRENCES IN THE PRECAMBRIAN OF NORTHERN SASKATCHEWAN,** (Excluding Radioactive Minerals), by L. S. Beck, 1959. (Reprinted 1969, 1974)
Listing, descriptions. Location maps.

DMR. 37 **THREE FORKS AND BAKKEN STRATIGRAPHY IN WEST CENTRAL SASKATCHEWAN,** by Paul Kents, 1959. (Reprinted 1965)
Economic aspects.

DMR. 38 **DAWSON BAY FORMATION IN THE QUILL LAKES–QU'APPELLE AREA OF SASKATCHEWAN,** by D. M. Lane, 1959. (Reprinted 1965)
Middle Devonian. Correlation. Oil, gas.

DMR. 39 **THE GEOLOGY OF THE OLIVER LAKE AREA (East Half),** Saskatchewan, by R. Shklanka, 1961.
Area of report: 64-D-14-E.
Map scale: 1:63,360. Coloured.
Precambrian. Migmatites, intrusive rocks. Geophysical anomalies. Sulphides.

DMR. 40 **THE GEOLOGY OF THE WAPUS BAY AREA (East Half),** Saskatchewan, by M.W. Pyke, 1960. (Reprinted 1970)
Area of report: 64-D-9-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, metavolcanics, intrusives, migmatites. Prospecting recommendations.

DMR. 41 **THE GEOLOGY OF THE OTTER LAKE AREA (West Half),** Saskatchewan, by W.A. Padgham, 1960. (Reprinted 1968).
Area of report: 73-P-10-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metamorphics, igneous rocks. Magnetic anomalies. Lead-zinc, copper.

DMR. 42 **THE GEOLOGY OF THE TROUT LAKE AREA (East Half),** Saskatchewan, by A. Morris, 1960. (Reprinted 1969)
Area of report: 73-P-11-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, igneous rocks, geophysical anomalies. Sulphides.

DMR. 43 **THE GEOLOGY OF THE CLUT LAKES AREA (West Half),** Saskatchewan, by G.L. Colborne, 1960. (Reprinted 1969)
Area of report: 74-P-5-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metavolcanics, metasediments, igneous rocks. Chalcopyrite, pyrrhotite.

DMR. 44 **THE GEOLOGY OF THE TANTATO LAKES AREA (Astrolabe Lake, East Half),** Saskatchewan, by F.J. Johnston, 1960. (Reprinted 1970)
Area of report: 74-P-12-E.
Map scale: 1:63,360: Coloured.
Precambrian. Metasediments, tuffs, volcanics. Granite, norite intrusives. Nickeliferous pyrrhotite–chalcopyrite.

DMR. 45 **MISSISSIPPIAN MEGAFAUNAS IN SOUTHEASTERN SASKATCHEWAN,** by John E. Brindle, 1960. (Reprinted 1969)
Brachiopods, corals. Age, correlations.

DMR. 46 **THE EVAPORITES OF THE UPPER ORDOVICIAN STRATA IN THE NORTHERN PART OF THE WILLISTON BASIN,** by D. M. Kent, 1960. (Reprinted 1966)
Oil reservoirs.

DMR. 47 **DEADWOOD AND WINNIPEG STRATIGRAPHY IN EAST CENTRAL SASKATCHEWAN,** by Douglas D. McLean, 1960. (Reprinted 1966)
Economic possibilities.

DMR. 48 **GEOLOGY AND RESERVOIR CHARACTERISTICS OF THE GLEN EWEN FIELD,** Saskatchewan, by I. O. Magas, 1961.
Mississippian age. Oil. Methods for well completion.

DMR. 49 **HELIUM PROSPECTS IN SOUTHWEST SASKATCHEWAN,** by H. B. Sawatzky, R. G. Agarwal and W. Wilson, 1960. (Reprinted 1966)
Trapping mechanisms, geophysical and geological data, 20 anomalies, pre-Middle Devonian relief.

DMR. 50 **IRON ORE OCCURRENCES, NORTHWESTERN SASKATCHEWAN,** by J.B. Mawdsley, 1960.
Area of report: Parts of 74-B-5; 74-B-11-W; 74-B-12; 74-B-13; 74-B-14-W.
Map scale: 1:31,680. Uncoloured with magnetometric overlays.
1954 airborne magnetometer surveys. Magnetite, metamorphic, sedimentary, iron formations.
Prospecting recommendations.

DMR. 51 **CORRELATION AND SUBCROPS OF THE MISSISSIPPIAN STRATA IN SOUTHEASTERN AND SOUTH CENTRAL SASKATCHEWAN,** by L. M. Fuzesy, 1960. (Reprinted 1966)
Subcrop, isopach maps. Oil producing areas and further oil possibilities.

DMR. 52 **THE FAUNAS OF THE LOWER PALAEOZOIC CARBONATE ROCKS IN THE SUBSURFACE OF SASKATCHEWAN,** by John E. Brindle, 1960.
Coelenterates, brachiopods. Ordovician Bighorn Group, Silurian Interlake Group.

DMR. 53 **JURASSIC MICROFAUNAS FROM SASKATCHEWAN,** by John H. Wall, 1960.
Foraminifera, Ostracoda. Species restriction.

DMR. 54 **THE GEOLOGY OF THE ATTITTI LAKE AREA (West Half),** Saskatchewan, by M.W. Pyke, 1961.
Area of report: 63-M-1-W.
Map scale: 1:63,360. Coloured.
Precambrian. Kisseynew Complex. Metasediments, volcanics, intrusives, migmatites. Pyrite, chalcopyrite, sphalerite, gold, silver.

DMR. 55 **THE GEOLOGY OF THE SETTEE LAKE AREA (West Half),** Saskatchewan, by A. Morris, 1961. (Reprinted 1970)
Area of report: 73-P-16-W.
Map scale: 1:63,360. Coloured.
Precambrian. Migmatized metasediments, metavolcanics, intrusives. Pyrrhotite, pyrite, chalcopyrite, gold.

DMR. 56 **THE GEOLOGY OF THE OTTER LAKE AREA (East Half),** Saskatchewan, by W.A. Padgham, 1963. (Reprinted 1970)
Area of report: 73-P-10-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metamorphics, igneous rocks. Magnetic anomalies. Copper, chalcopyrite, pyrrhotite.

DMR. 57 **THE GEOLOGY OF THE DECEPTION LAKE AREA (East Half),** Saskatchewan, by R. Shklanka, 1962.
Area of report: 74-A-9-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, granite, sulphides.

DMR. 58 **THE GEOLOGY OF THE CLUT LAKES AREA (East Half),** Saskatchewan, by G.L. Colborne, 1961.
Area of report: 74-P-5-E.
Map scale: 1:63,360. Coloured.
Precambrian. Tazin Group, metasediments, granodiorite plutons, mylonite, gneiss. Iron sulphides, iron-formation.

DMR. 59 **THE GEOLOGY OF THE ASTROLABE LAKE AREA (West Half)**, Saskatchewan, by F.J. Johnston, 1961. (Reprinted 1970)
Area of report: 74-P-12-W.
Map scale: 1:63,360. Coloured.
Precambrian. Paragneiss, granulite, granite. Metasediments, metavolcanics, norite. Nickeliferous pyrrhotite-chalcopyrite.

DMR. 60 **THE GEOLOGY OF THE BARNETT LAKE AREA (West Half)**, Saskatchewan, by P.L. Money, 1961. (Reprinted 1972)
Area of report: 74-A-6-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, intrusives. Wollaston Lake Fold-Belt System. Pyrite, hematite, magnetite.

DMR. 61 **THE GEOLOGY OF THE THAINKA LAKE AREA (West Half)**, Saskatchewan, by F. Koster, 1961.
Area of report: 74-N-13-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, volcanics, intrusives, migmatites. Brecciation, mylonization. Athabasca–Martin Lake series. Prospecting recommendations.

DMR. 62 **GEOLOGY AND MINERAL DEPOSITS OF THE FLIN FLON AREA**, Saskatchewan, by A.R. Byers, S.J.T. Kirkland, and W.J. Pearson, 1965.
Area of report: 63-K-12-W and 63-K-13-W.
Map scale: 1:31,680. 4 coloured maps.
– structural maps
– detail Flin Flon mine
Precambrian. Metasediments, volcanics, intrusives. Base metals.

DMR. 63 **INTERPRETATION OF AEROMAGNETIC DATA IN WEST CENTRAL SASKATCHEWAN AND EAST CENTRAL ALBERTA**, by R.G. Agarwal, 1960. (Reprinted 1969)
Area of report: 50° to 56° N. Latitude and 107° to 114° W. Longitude.
Precambrian. Subsurface structure and lithology. Sedimentary anomalies. Petroleum, natural gas.

DMR. 64 **DEADWOOD AND WINNIPEG STRATIGRAPHY IN SOUTHWESTERN SASKATCHEWAN**, by W. K. Fyson, 1961.
Economic possibilities.

DMR. 65 **THE VIKING FORMATION IN SOUTHWESTERN SASKATCHEWAN**, by H. Llewelyn Jones, 1961.
Economic possibilities.

DMR. 66 **TRANSITIONAL DEVONIAN–MISSISSIPPIAN FORMATIONS OF SOUTHERN SASKATCHEWAN**, by James E. Christopher, 1961.
Bakken, Three Forks Formations.

DMR. 67 **RECESSION OF THE WISCONSINAN GLACIER FROM CENTRAL SASKATCHEWAN**, by F.H. Edmunds, 1962. (Reprinted 1969)
Glacial lakes. Topography. Surficial deposits.

DMR. 68 **THE GEOLOGY OF THE CHAMBEUIL LAKE AREA (West Half)**, Saskatchewan, by F.J. Johnston, 1962.
Area of report: 74-P-11-W.
Map scale: 1:63,360. Coloured.Precambrian. Metasediments, metavolcanics, intrusives. Norite. Copper-nickel.

DMR. 69 **THE GEOLOGY OF THE WILEY LAKE AREA (East Half)**, Saskatchewan, by G.L. Colborne, 1962.
Area of report: 74-O-8-E.
Map scale: 1:63,360. Coloured.
Precambrian. Tazin Group. Athabasca Sandstone. Norite. Nickel. Geophysics.

**DMR. 70** **THE GEOLOGY OF THE NISTOWIAK LAKE AREA (East Half)**, Saskatchewan, by A. Morris, 1962. (Reprinted 1972)
Area of report: 73-P-8-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, metavolcanics, intrusives. Norite. Copper-nickel.

**DMR. 71** **THE GEOLOGY OF THE THAINKA LAKE AREA (East Half)**, Saskatchewan, by F. Koster, 1962.
Area of report: 74-N-13-E.
Map scale: 1:63,360. Coloured.
Precambrian. Tazin Group, Martin Formation, Athabasca Sandstone.

**DMR. 72** **THE TECHNICAL AND ECONOMIC ASPECTS OF HELIUM PRODUCTION IN SASKATCHEWAN**, by H. Lee, 1962. (Reprinted 1965)
History. North America.
(A limited number of copies are available on request, free of charge).

**DMR. 73** **THE STRATIGRAPHY OF THE UPPER DEVONIAN SASKATCHEWAN GROUP OF SOUTHWESTERN SASKATCHEWAN**, by D. M. Kent, 1963.
Duperow, Birdbear Formations. Microfossil zones. Oil, gas.

**DMR. 74** **THE GEOLOGY OF THE MCLEAN BAY AREA**, Saskatchewan, by R. Shklanka, 1962.
Area of report: 64-E-16.
Map scale: 1:63,360. Coloured.
Precambrian. Gabbro, granite.

**DMR. 75** **REGIONAL CORRELATION OF GEOLOGICAL AND GEOPHYSICAL DATA IN THE LAKE ATHABASCA AREA, Northern Saskatchewan**, by R.G. Agarwal, 1962. (Reprinted 1969)
Area of report: 64-M; 74-N, O, P.
Map scale: 1:253,440.

**DMR. 76** **HYDROCARBON POTENTIAL OF THE SOUTH REGINA AREA**, Saskatchewan, by W. Wilson, D. Surjik and H.B. Sawatzky, 1963. (Reprinted 1966)
Palaeozoic. Petroleum, natural gas. Producing fields.

**DMR. 77** **THE GEOLOGY OF THE TROUT LAKE AREA (West Half)**, Saskatchewan, by A. Morris, 1963. (Reprinted 1972)
Area of report: 73-P-11-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metamorphics, igneous rocks. Pyrrhotite, pyrite. Geophysical anomalies.

**DMR. 78** **THE GEOLOGY OF THE GUNCOAT BAY AREA**, Saskatchewan, by W.A. Padgham, 1966.
Area of report: 73-P-9.
Map scale: 1:63,360. Coloured.
Precambrian. Gneisses, migmatites, intrusives. Pyrrhotite.

**DMR. 79** **THE GEOLOGY OF THE WILEY LAKE AREA (West Half)**, Saskatchewan, by G.L. Colborne and E. Rosenberger, 1963.
Area of report: 74-O-8-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metavolcanics metasediments, igneous rocks. Norite. Athabasca Formation. Nickeliferous pyrrhotite-chalcopyrite. Magnetic anomalies.

**DMR. 80** **THE GEOLOGY OF THE LYTLE LAKE AREA, (West Half)**, Saskatchewan, by F.J. Johnston, 1963.
Area of report: 74-P-6-W.
Map scale: 1:63,360. Coloured.
Precambrian. Black Lake Fault. Sulphides, iron-formation. Gneiss Complex.

DMR. 81 **THE GEOLOGY OF THE HARPER LAKE AREA (North Half), Saskatchewan, by F. Koster, 1963.**
Area of report: 74-N-12-N.
Precambrian. Migmatized metasediments, magmatic granodiorites.

DMR. 82 **REGIONAL CORRELATION OF GEOLOGICAL AND GEOPHYSICAL DATA IN THE WOLLASTON LAKE AREA, Northern Saskatchewan, by R.G. Agarwal, 1965. (Reprinted 1969)**
Area of report: 64-L; 74-I, J, K.
Map scale: 1:253,440. Coloured.

DMR. 83 **INVENTORY AND OUTLOOK OF SASKATCHEWAN'S MINERAL RESOURCES**
**(See Miscellaneous Reports)**

DMR. 84 **USE OF A DIGITAL COMPUTER IN PREDICTING THE DEPLETION OF PETROLEUM RESERVOIRS, by L. Brunskill, 1964.**
IBM 1410. Undersaturated, and saturated reservoirs, no water entry, constant water saturation and under variable water saturation.
(No charge – copies available on request).

*DMR. 85 **DODSLAND VIKING SAND, PRIMARY RECOVERY AND PRESSURE MAINTENANCE POSSIBILITIES, by R. Koncohrada and L. Freitag, 1964.**
Reservoir data calculations of primary and secondary recovery. Two pilot water floods in the Viking sand.

DMR. 86 **THE GEOLOGY OF THE BLACK BEAR ISLAND LAKE AREA (East Half), Saskatchewan, by A. Morris, 1965.**
Area of report: 73-P-12-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, granite. Pyrite, pyrrhotite.

DMR. 87 **THE GEOLOGY OF THE WAPAWEKKA NARROWS AREA (North Half), Saskatchewan, by W.A. Padgham, 1966.**
Area of report: 73-I-16-N.
Map scale: 1:63,360. Coloured.
Precambrian, Cretaceous. Metasediments, metavolcanics. Soapstone, gold, silica sand, manganese.

DMR. 88 **THE GEOLOGY OF THE AREA AROUND NEEDLE FALLS, CHURCHILL RIVER, Saskatchewan, by P.L. Money, 1965. (Reprinted 1972).**
Area of report: 73-O-9-E, 73-P-12-W, 73-P-13-W.
Map scale: 1:63,360. Two coloured maps.
Precambrian. Age data.

DMR. 90 **THE GEOLOGY OF THE LYTLE LAKE AREA (East Half), Saskatchewan, by F. J. Johnston, 1964. (Reprinted 1969)**
Area of report: 74-P-6-E.
Map scale: 1:63,360. Coloured.
Precambrian. Schists, gneiss. Molybdenite.

DMR. 91 **THE GEOLOGY OF THE ENA LAKE AREA (East Half), Saskatchewan, by F. Koster, 1965.**
Area of report: 74-N-16-E.
Map scale: 1:63,360. Coloured.
Precambrian. Granite, radioactive mineralization, sulphides, migmatites.

DMR. 92 **SOURIS RIVER FORMATION IN SOUTHERN SASKATCHEWAN, by D. M. Lane, 1964.**
Middle Devonian, Upper Devonian. Davidson Evaporite. Petroleum, helium.

*Out of print – may be consulted at the Publications Office.

**DMR. 93** **THE GEOLOGY OF THE PELICAN NARROWS AND BIRCH PORTAGE AREAS,** Saskatchewan, by M.W. Pyke, 1966.
Area of report: 63-L-15 and 63-M-2-E.
Map scale: 1:63,360. Two coloured maps.
Precambrian. Kisseynew Group, Amisk Series, Missi Series. Beryl-bearing pegmatites.

**DMR. 94** **REGIONAL CORRELATION OF GEOLOGICAL AND GEOPHYSICAL DATA IN THE CREE LAKE AREA, Northern Saskatchewan,** by R. G. Agarwal, 1965. (Reprinted 1969) 1969)
Area of report: 64-E, 74-F, G, H.
Map scale: 1:253,440. Two coloured maps.

**DMR. 95** **THE MIDDLE JURASSIC SHAUNAVON FORMATION IN SOUTHWESTERN SASKATCHEWAN,** by J. E. Christopher, 1964. (Reprinted 1969)
Middle Jurassic. Oil. Rapdan, Dollard, and Bone Creek-Instow fields.

**DMR. 96** **MANNVILLE GROUP AND ASSOCIATED LOWER CRETACEOUS CLASTIC ROCKS IN SOUTHWESTERN SASKATCHEWAN,** by Ian D. Maycock, 1967.
Hydrocarbon occurrences.

**DMR. 97** **THE GEOLOGY OF THE NEMEI LAKE AREA (East Half),** Saskatchewan, by M.W. Pyke, 1966.
Area of report: 63-M-8-E and part of 63-N-5-W.
Map scale: 1:63,360. Coloured. Three geochemical overlays.
Precambrian. Kisseynew Gneiss. Prospecting, geochemistry.

**DMR. 98** **THE MIDDLE DEVONIAN WINNIPEGOSIS FORMATION OF SASKATCHEWAN,** by H. Llewelyn Jones, 1965.
Petroleum, natural gas. Prospects.

**DMR. 99** **THE GEOLOGY OF THE UPPER DEVONIAN SASKATCHEWAN GROUP AND EQUIVALENT ROCKS IN WESTERN SASKATCHEWAN AND ADJACENT AREAS,** by D. M. Kent, 1968 . . . . . $ 5.00
Duperow, Birdbear Formations. Oil, gas.

**DMR. 100** **THE GEOLOGY OF THE HICKSON LAKE AREA (East Half),** Saskatchewan, by A.J. Gracie, 1965.
Area of report: 74-A-8-E.
Map scale: 1:63,360. Coloured. Three geochemical overlays.
Precambrian. Metamorphics, intrusives. Geochemistry. Granodiorite.

**DMR. 101** **THE GEOLOGY OF THE DARDIER LAKE AREA (West Half),** Saskatchewan, by F. Koster, 1965.
Area of report: 74-O-13-W.
Map scale: 1:63,360. Coloured.
Granulites, migmatitic granite, metasediments, pegmatites, mylonites. Allanite. Black Bay Fault.

**DMR. 102** **REGIONAL CORRELATION OF GEOLOGICAL AND GEOPHYSICAL DATA IN THE REINDEER LAKE AREA, Northern Saskatchewan,** by R.G. Agarwal, 1968.
Area of report: 64-D, 74-A, B, C.
Map scale: 1:253,440. Two coloured maps.

**DMR. 103** **THE GEOLOGY OF THE WAPAWEKKA LAKE AREA (North Half),** Saskatchewan, by W. A. Padgham, 1967.
Area of report: 73-I-15-N.
Map scale: 1:63,360. Coloured.
Precambrian, Cretaceous. Metasediments, metavolcanics.

**DMR. 104** **GEOLOGY OF THE FROBISHER-ALIDA BEDS, SOUTHEASTERN SASKATCHEWAN,** by L.M. Fuzesy, 1966 . . . . . $ 5.00
Oil accumulation.

**DMR. 105** **PART I – LOWER CRETACEOUS (MIDDLE ALBIAN) FORAMINIFERA FROM SASKATCHEWAN.**
**PART II – JURASSIC MICROFOSSILS FROM A LOCALITY IN SOUTHEASTERN SASKATCHEWAN,** by Paul Guliov, 1967.
Joli Fou Formation. Callovian microfauna.

**DMR. 106** **THE GEOLOGY OF THE KELLY LAKE AREA,** by W. G. Q. Johnston, 1968.
Area of report: 63-M-13.
Map scale: 1:63,360. Coloured. Three geochemical overlays.
Precambrian. Metasediments, metavolcanics, intrusives, Kisseynew Gneiss. Gold, copper, graphite. Geochemistry.

**DMR. 107** **THE GEOLOGY OF THE NEMEI LAKE AREA (West Half),** Saskatchewan, by R. L. Johnson, 1966.
Area of report: 63-M-8-W.
Map scale: 1:63,360. Coloured.
Precambrian. Kisseynew Gneiss. Granite.

**DMR. 108** **THE GEOLOGY OF THE DALY LAKE AREA (East Half),** Saskatchewan, by P. L. Money, 1966.
Area of report: 74-A-12-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, intrusives, gneiss. Daly Lake Group. Radioactive pegmatites. Geochemistry.

**DMR. 109** **THE GEOLOGY OF THE NEKWEAGA BAY AREA (West Half),** Saskatchewan, by Brian Chadwick, 1966.
Area of report: 64-E-13-W.
Map scale: 1:63,360. Coloured.
Precambrian. Migmatitic gneiss, arkose, granite, Athabasca Sandstone. Geochemistry.

**DMR. 110** **MIDDLE JURASSIC SHAUNAVON FORMATION OF SOUTHWESTERN SASKATCHEWAN – LITHOLOGIC DESCRIPTIONS OF SELECTED CORED SECTIONS,** by James E. Christopher, 1966.
Wells, 400.

**DMR. 111** **THE GEOLOGY OF THE HARPER LAKE AREA (South Half),** Saskatchewan, by F. Koster, 1967.
Area of report: 74-N-12-S.
Map scale: 1:63,360. Coloured.
Precambrian. Gneiss, migmatite, granodiorite, mylonite. Uranium.

***DMR. 112** **A PRELIMINARY REPORT OF URANIUM DEPOSITS IN THE ATHABASCA REGION,** Saskatchewan, by L. S. Beck, 1967.
Superseded by DMR. 126.
Area of report: Lake Athabasca region, principally 74-N.
Map scales: various.
Structural geology, geochronology. Lists and maps. Exploration recommendations.

**DMR. 113** **THE GEOLOGY OF THE MARIBELLI LAKE AREA (West Half),** Saskatchewan, by A. J. Gracie, 1967.
Area of report: 74-A-1-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, metavolcanics. Jojay Lake Formation. Diorite, granodiorite, pegmatite, gold.

*Out of print—may be consulted at the Publications Office.

DMR. 114 **THE GEOLOGY OF THE DESCHAMBAULT LAKE DISTRICT,** Saskatchewan, by W. A. Padgham, 1968, comprising OSKIKEBUK LAKE AREA, VINEY LAKE AREA (West Half), BALLANTYNE BAY AREA (Northeast Quarter). LIMESTONE LAKE AREA (North Half).
Area of report: 63-L-13, 63-L-14-W, and parts of 63-L-11 and 63-L-12.
Map scales: 1:63,360, two coloured maps.
1:31,680, two coloured maps.
Precambrian. Metasediments, metavolcanics. Oskikebuk, Wapawekka, Brownell Lake Groups, Missi Series, Amisk Series, Tabbernor Lake Fault. Geochemistry.

DMR. 115 Part I **THE GEOLOGY OF THE STANLEY AREA (West Half), (MacKay Lake Area),** Saskatchewan, by L. H. Forsythe, 1968 .....$5.00
Area of report: 73-P-7-W.
Map scale: 1:31,680. One coloured map; three overlays; three supplementary coloured maps.
Metasediments. Metavolcanics, migmatites, granite, diorite, gabbro, ultramafics. Geochemistry.

DMR. 115 Part II **THE GEOLOGY OF THE NEMEIBEN LAKE AREA (East Half), AND THE GEOLOGY OF MINERAL DEPOSITS IN THE NEMEIBEN LAKE-STANLEY AREAS,** Saskatchewan, by L. H. Forsythe, 1971 .....$5.00
Area of report: 73-P-6-E, 73-P-7-W.
Map scale: 1:31,680. Coloured, geological; two structure; one geochemical overlay; variously detailed maps and plans.
Precambrian. Metasediments, granite, mafelsic and ultramafic intrusives. Anglo-Rouyn Mine. Nickel, copper prospects.

DMR. 116 **THE GEOLOGY OF THE MORELL LAKE AREA (West Half),** Saskatchewan, by Brian Chadwick, 1967.
Area of report: 64-E-12-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, Glaciation. Geochemistry.

DMR. 117 **THE GEOLOGY OF THE HANSON LAKE AREA (East Half),** Saskatchewan, by R. L. Johnson, 1967.
Area of report: 63-L-10-E.
Map scale: 1:63,360. Coloured.
Precambrian. Hudsonian Orogeny. Amisk Group, Kisseynew Gneiss. Diorite, syenodiorites, Ordovician sandstone, limestone, granite gneisses.

DMR. 118 **THE GEOLOGY OF THE NYBERG LAKES AREA (West Half),** Saskatchewan, by R. L. Johnson, 1968.
Area of report: 74-G-4-W.
Map scale: 1:63,360. Coloured.
Granodiorite gneiss, quartz monzonite gneiss. Athabasca Formation, Virgin Schist Group.

DMR. 119 **THE GEOLOGY OF THE TRADE LAKE AREA (West Half),** Saskatchewan, by A. K. Chakraberti, 1968.
Area of report: 63-M-5-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, granite, intrusives, migmatite. Pyrite, pyrrhotite, chalcopyrite, arsenopyrite, magnetite. Geochemistry.

DMR. 120 **JURASSIC MEGAFOSSILS OF SASKATCHEWAN, WITH A NOTE ON CHAROPHYTES,** by Douglas F. Paterson, 1968.
Geographic, stratigraphic distribution. Illustrations.

DMR. 121 **THE GEOLOGY OF THE ZIN BAY AREA,** Saskatchewan, by F. Koster, 1968.
Area of report: 74-N-14.
Map scale: 1:63,360. Coloured.
Precambrian, Kenoran age. Gneiss, migmatite, intrusives. Uranium.

DMR. 122 **THE GEOLOGY OF THE BECKETT LAKE AREA (East Half)**, Saskatchewan, by B. P. Scott, 1969.
Area of report: 74-N-8-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments. Daly Lake Group. Molybdenite. Geochemistry.

DMR 123 **THE MIDDLE DEVONIAN PRAIRIE EVAPORITE OF SASKATCHEWAN**, by M. E. Holter, 1969 ..... $ 5.00
Stratigraphy, sedimentation, geochemistry, mineralogy, economic potential. Potash mineral genesis.

DMR. 124 **A GRAVITY INVESTIGATION OF THE STONY RAPIDS AREA, NORTHERN SASKATCHEWAN**, by R. G. Agarwal, and E. R. Kanasewich, 1968.
Economic minerals. Athabasca Sandstone, norite body.

DMR. 125 **THE PETROLOGY AND ECONOMIC GEOLOGY OF THE UPPER DEVONIAN BIRDBEAR FORMATION IN SOUTHEASTERN SASKATCHEWAN**, by R. A. H. Nichols, 1970.
Limestone, dolomite, anhydrite, oil, gas.

DMR. 126 **URANIUM DEPOSITS OF THE ATHABASCA REGION**, Saskatchewan, by L. S. Beck, 1969.
Supersedes DMR. 112.
Area of report: 74-N, O, P.
Map scales: various.
Rb-Sr age determination, uranium metallogenesis. Mines, prospects, occurrences, prospecting.

DMR. 127 **THE GEOLOGY OF THE EASTERN PORTION OF THE WADDY LAKE AREA**, Saskatchewan, by W.G.Q. Johnston, 1969.
Area of report: 64-D-4-E.
Map scale: 1:63,360. Coloured, geological; six geochemical overlays.
Precambrian. Kisseynew Gneiss, basic volcanics, metasediments, granite. Stanley Fault. Chalcopyrite, pyrrhotite, graphite. Geochemistry.

*DMR. 128 **REFLECTION SEISMOGRAPH SURVEY, WAPELLA AREA**, Saskatchewan, June 1966.
Monitor records, seismic records section, geophysical operator's report, expanded spread section, synthetic seismogram.
Churchill, Superior provinces.

*DMR. 129 **REFLECTION SEISMOGRAPH SURVEY, YORKTON AREA**, Saskatchewan, September, 1967.
Monitor records, seismic record section, geophysical operator's report, expanded spread section, location map.
Precambrian, Palaeozoic.

DMR 130 **THE GEOLOGY OF THE MAY LAKE AREA (East Half)**, Saskatchewan, by W.G.Q. Johnston, 1970.
Area of report: 64-D-5-E.
Map scale: 1:63,360. Coloured, geological; six geochemical overlays.
Precambrian. Metasediments, metavolcanics, intrusives, Kisseynew Gneiss. Chalcopyrite, pyrrhotite, pyrite, copper, zinc. Geochemistry.

DMR. 131 **THE GEOLOGY OF THE BURCHNALL LAKE AREA**, Saskatchewan, by F. Koster, 1970.
Area of report: 74-N-15.
Map scale: 1:63,360. Coloured.
Precambrian, Kenoran. Granodiorite-diorite, Paragneiss Series, Martin Formation. Granulite, amphibolite facies. Radioactive anomalies.

*Out of print—may be consulted at the Publications Office.

**DMR. 132** **THE GEOLOGY OF THE DUFFERIN LAKE AREA (West Half)**, Saskatchewan, by R.H. Wallis, 1970.
Area of report: 74-G-5-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, granitic gneiss, amphibolite, Athabasca Formation, Virgin Schist Group. Pyrite, pyrrhotite, chalcopyrite, arsenopyrite, magnetite, graphite.

**DMR. 133** **GEOLOGY AND PETROLEUM ACCUMULATIONS OF THE NORTH HOOSIER AREA, WEST CENTRAL SASKATCHEWAN**, by W. I. White, 1970.
Bakken, Viking Formation. Petroleum reservoirs and prospects.

**DMR. 134** **THE GEOLOGY OF THE TRADE LAKE AREA (East Half)**, Saskatchewan, by A.K. Chakrabarti, 1969.
Area of report: 63-M-5-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, metavolcanics, intrusives.

**DMR. 135** **THE GEOLOGY OF THE COMBE LAKE AREA**, Saskatchewan, by B. P. Scott, 1970.
Area of report: 64-E-5.
Map scales: 1:63,360. Coloured.
1:9,600 (COURTENAY LAKE) Coloured.
1:126,720 (WOLLASTON LAKE compilation). Black and white, covering parts of 64-E-5, 12, 13 and 64-L-3, 4 and 74-H-8, 9. (See also DMR. 137).
Precambrian. Metasediments, volcanics, granite. Wollaston Lake Fold-Belt System. Lead-zinc.

**DMR. 136** **THE GEOLOGY OF THE CLAM LAKE AREA (West Half)**, Saskatchewan, by L.H. Forsythe, 1971.
Area of report: 73-P-5-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, granite. Pyrite, pyrrhotite, graphite.

**DMR. 137** **THE GEOLOGY OF THE HIDDEN BAY AREA**, Saskatchewan, by R. H. Wallis, 1971.
Area of report: 64-L-4 and part of 64-L-3.
Map scales: 1:63,360. Coloured.
1:126,720 (WOLLASTON LAKE compilation). Black and white, covering parts of 64-E-5, 12, 13 and 64-L-3, 4 and 74-H-8, 9. (See also DMR. 135).
Precambrian. Metasediments, granite. Athabasca Formation. Sulphides, uranium.

**DMR. 138** **THE GEOLOGY OF THE CLAM LAKE AREA (East Half)**, Saskatchewan, by L.H. Forsythe, 1972.
Area of report: 73-P-5-E and part of 73-P-4-E.
Map scale: 1:63,360. Coloured, geological; three structural maps.
Precambrian. Migmatites, granite, intrusives, gneiss. Nickel, copper.

**DMR. 140** **THE STRATIGRAPHY OF THE WINNIPEG FORMATION (ORDOVICIAN) OF SASKATCHEWAN**, by D. F. Paterson, 1971.
Black Island Member—quartzose sandstone, upper Icebox Member—shale, argillaceous quartzose sandstone. Williston Basin.

**DMR. 141** **A STRATIGRAPHIC AND SEDIMENTOLOGIC ANALYSIS OF THE MISSISSIPPIAN MADISON FORMATION IN SOUTHWESTERN SASKATCHEWAN**, by D. M. Kent, 1974.
Mississippian, Madison Formations, Strathallen, Killdeer Beds. Hydrocarbon potential. Carbonates, mudstone, sandstone.

**DMR. 142** **THE GEOLOGY OF THE ENA LAKE AREA (West Half)**, Saskatchewan, by T.H. de Zoysa, 1974.
Area of report: 74-N-16-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, volcanics, intrusives, Pyrite, chalcopyrite, pyrrhotite, fluorite, copper, lead, nickel. Radioactivity.

**DMR. 143** In Preparation. GLENNIE LAKE AREA; 63-M-12; J. F. Lewry. See Summary Reports 1970, 1971.

**DMR. 144** **THE GEOLOGY OF THE CHARCOAL LAKE AREA**, Saskatchewan, by B. P. Scott, 1972.
Area of report: 64-L-16.
Map scale: 1:63,360. Coloured.
Precambrian. Charnockite, felsic gneiss, intrusives, migmatite. Daly Lake Group. Granulite facies, amphibolite facies. Chalcopyrite, pyrrhotite.

**DMR. 145** In preparation. SOUTHEND AREA; 63-D-6; W.G.Q. Johnston. See Summary Reports 1970, 1972.

**DMR. 146** **THE GEOLOGY OF THE HARA LAKE AREA**, Saskatchewan, by M. Allan Kays, 1972.
Area of report: 64-M-1.
Map scale: 1:64,360. Coloured.
Precambrian. Metasediments, metavolcanics, granite, gneiss, cordierite–granulite facies. Geochemistry. Wollaston Lake Fold-Belt System.

**DMR. 147** **THE GEOLOGY OF THE WAPAWEKKA AREA**, Saskatchewan, by Fred F. Langford, 1973.
Area of report: 73-I.
Map scale: 1:250,000. Coloured.
Precambrian, Palaeozoic, Cretaceous, Pleistocene. Swan River Sandstone, shale till, glacial deposits. Glacial Lake Agassiz. Silica sand, kaolin, groundwater, sand, gravel, bentonite, coal, manganese.

**DMR. 148** **BASE METAL GEOCHEMISTRY. BRABANT LAKE AREA**, Saskatchewan, by W.G.Q. Johnston, 1972.
Area of Report: 64-D-4-SW.
Map scale: 1:31,680. Five geochemical overlays.
Precambrian. Kisseynew Gneiss. Iron, nickel, copper, zinc, lead.

**DMR. 149** **THE GEOLOGY OF THE MAY LAKE AREA (Northwest Quarter)**, Saskatchewan, by W.G.Q. Johnston, 1973.
Area of report: 64-D-5-NW.
Map scale: 1:63,360. Coloured; eight geochemical overlays.
Precambrian. Metasediments, volcanics, ultramafics, granite. Pyrrhotite, pyrite, graphite, gold, asbestos, copper, nickel. Glaciation, geochemistry. Prospecting recommendations.

**DMR. 151** **THE UPPER JURASSIC VANGUARD AND LOWER CRETACEOUS MANNVILLE GROUPS**, of Southwestern Saskatchewan, by J. E. Christopher, 1974 . . . . . $ 5.00
Four black and white stratigraphic cross sections. Rush Lake, Masefield, Swift Shales, Roseray, Rierdon, Success, Cantuar, Pense Formations. Dimmock Creek, Atlas Creek, McCloud Members. Hydrology, oil reservoirs, hydrocarbon potential.

**DMR. 152** In preparation. NEMEIBEN LAKE (West Half), and LA RONGE (West Half); 73-P-6-W and 73-P-3-W; L. H. Forsythe.
See Summary Report, 1971.

**DMR. 153** In preparation. MILTON ISLAND (West Half); 64-D-10-W; T. I. I. Sibbald.
See Summary Report, 1971.

DMR. 154 **THE GEOLOGY OF THE PENDLETON LAKE AREA, (West Half),** Saskatchewan, by B.P. Scott, 1973.
Area of report: 74-A-15-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, migmatite, granite, Wollaston Lake Fold-Belt System, Sandfly Lake, Meyers Lake, Daly Lake Groups. Geochemistry. Chalcopyrite, chalcocite, native copper, galena. Economic geology.

DMR. 155 **THE GEOLOGY OF THE DUTTON LAKE AREA (East Half),** Saskatchewan, by R.J.C. Munday, 1973.
Area of report: 64-M-9-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, migmatite, granite. Many Islands Belt, Hurwitz Group. Chalcopyrite. Economic potential.

DMR. 156 **THE GEOLOGY OF THE SCIMITAR LAKE AREA (East Half),** Saskatchewan, by D. E. Pearson, 1973.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, metavolcanics, amphibolite, chalcopyrite. Economic potential.

DMR. 157 **HYDROCARBON POTENTIAL OF SASKATCHEWAN,** by J. E. Christopher, D. M. Kent and F. Simpson, 1971.
Mississippian reservoirs, Silurian, Mesozoic prospects.

DMR. 158 **GEOLOGICAL INVESTIGATIONS IN THE PASQUIA HILLS AREA,** by L. S. Beck, 1974.
Area of report: 63-C, D, E, F. (Parts)
Map scale: 1:250,000. Coloured.
Cretaceous, Tertiary. Blairmore, Favel, Vermilion River, Riding Mountain Formations, Colorado Group. Hydrocarbons, silica sand, cement rock, manganese, uranium.

DMR. 161 **BIOSTRATIGRAPHY AND MICROFAUNAS OF THE JURASSIC SYSTEM OF SASKATCHEWAN,** by Margaret M. Brooke and W. K. Braun, 1972 . . . . . $ 3.00
Shaunavon, Vanguard, Gravelbourg, Watrous, Morrison, Swift, Rierdon, Sawtooth Formation. Ostracoda, foraminifera, charophyta. N.B. This report also covers the Zortman Butte, Montana.

DMR. 162 **THE SASKATCHEWAN GOVERNMENT COMPUTERIZED WELL INFORMATION SYSTEM,** by John V. Buller, 1972.
"Tellus" Information Retrieval Programme.

DMR. 163 **THE GEOLOGY OF THE MISSISSIPPIAN RATCLIFFE BEDS IN SOUTH–CENTRAL SASKATCHEWAN,** by L. M. Fuzesy, 1973.
Midale, Oungre Evaporites, Ratcliffe Beds. Limestone, dolomite, stylolite. Structure, hydrocarbons, economic potential.

DMR. 164 **COMPUTER PLOTTED ISOPACH AND STRUCTURE MAPS OF THE DEVONIAN FORMATIONS IN SASKATCHEWAN,** by D. F. Paterson 1973.
Devonian. Big Valley, Torquay, Birdbear, Duperow, Souris River, Dawson Bay, Winnipegosis, Ashern Formations, Prairie Evaporite.

DMR. 165 In preparation. COMPUTER PLOTTED ISOPACH AND STRUCTURE MAPS OF THE LOWER PALAEOZOIC FORMATIONS IN SASKATCHEWAN; D. F. Paterson.

DMR. 166 In preparation. MUDJATIK AREA (Southwest Quarter); 74-B-SW; D. E. Pearson.
See Summary Report, 1972.

DMR. 167 In preparation. THLUICHO LAKE AREA (East Half, part); 74-N-11-E, part; B.P. Scott.
See Summary Reports 1972, 1973.

DMR. 169 In preparation. HEWETSON LAKE AREA (West Half); 74-A-4-W; T. M. Fuh.
See Summary Report, 1972.

DMR. 170 In preparation. SANDY NARROWS AREA (East Half), 63-M-3-E; T. I. I. Sibbald.
See Summary Report, 1972.

DMR. 173 In preparation. PYLYPOW LAKE AREA (West Half); 74-A-5-W; L. H. Forsythe.
See Summary Report, 1973.

DMR. 175 In preparation. MANAWAN LAKE AREA (South Half); 63-M-6-S; S. J. T. Kirkland.
See Summary Report, 1973.

DMR. 177 **SUBSURFACE WASTE DISPOSAL POTENTIAL OF SASKATCHEWAN,** by F. Simpson and E. G. Dennison, 1975.
Williston Basin. Sandstone and carbonate aquifers.

DMR. 179 In preparation. THE UPPER DEVONIAN DUPEROW FORMATION OF SOUTHEASTERN SASKATCHEWAN; Colin Dunn.

DMR. 180 In preparation. THE STRATIGRAPHY OF THE ORDOVICIAN BIGHORN GROUP OF SOUTHEASTERN SASKATCHEWAN; A. C. Kendall.

## SUMMARY REPORTS

The Saskatchewan Geological Survey each November produces a summary interim report on the past year's geological investigations. Up to 1974 these include only field investigations. The maps accompanying these reports are produced direct from manuscript in monochrome ready for hand colouring, but are withdrawn from issue when the substantive report and map on the area are published.

Reports (1970–1974) $1.00 each

Maps $ .50 cents each

The Summary of Investigations 1975 is only available as a package with maps at $9.00.
A limited number of maps of all years are available separately.

**SUMMARY OF INVESTIGATIONS, 1975,** edited by J. E. Christopher and R. Macdonald. Issued with 13 accompanying maps listed below and one coloured index map showing progress of Precambrian Mapping Program, in folder, at total cost of $9.00.

1. HUNTER BAY (EAST) and PART of CARTIER LAKE, 73P-2(E), part 73P-1(W) and 73P-1(E), by L.H. Forsythe
2. MAYNARD LAKE and SANDY NARROWS (WEST), 63M-3(W) and 63M-4, by B.P. Scott
3. GILBERT LAKE (WEST), 63M-15(W), by Tsu Min Fuh
4. FOSTER LAKE (NE) & GEIKIE RIVER (SE) 74A-15(E), -16, 74H-1 and 74-H-2, by G.E. Ray
5. FOSTER LAKE (PART OF), 74-A-6(E), -7, -8(W), -9(W), -10 and -11(E), by C.F. Gilboy
6. PELICAN NARROWS (WEST) (NORTHERN PART) 63-M-2(W), by R. Macdonald
7. ISKWATAM LAKE (EAST) 63-M-11(E), by R. Macdonald
8. DUVAL LAKE (WEST) 63-N-4(W), by R. Macdonald
9. REINDEER LAKE SOUTH (NW) 64-D-11, -12, -13(W) and -14(W), by J.F. Lewry
10. REINDEER LAKE SOUTH (NW), 64D-11, -12, -13(W) and -14(W) STRUCTURAL GEOLOGY, by J.F. Lewry
11. REINDEER LAKE SOUTH (NE), 64D-10(E), -15 and -16 by F. F. Langford, M. R. Stauffer, L. C. Coleman and D. J. Mossman
12. GEIKIE RIVER (74H) by P. Ramaekers
13. QUATERNARY GEOLOGY UPPER FOSTER LAKE (74A), REINDEER LAKE SOUTH (64D), PELICAN NARROWS (63M) and part of LAC LA RONGE (73P) and AMISK LAKE (63L) by B.T. Schreiner, D.W. Alley and E.A. Christiansen

**SUMMARY REPORT OF FIELD INVESTIGATIONS BY THE SASKATCHEWAN GEOLOGICAL SURVEY, 1974,** edited by L. S. Beck and R. Macdonald. Issued with the nine maps listed below.

1. LA RONGE (East) and HUNTER BAY (West), 73-P-3-E, 73-P-2-W, by L. H. Forsythe.
2. DIPPER LAKE, 73-O-14, by B. P. Scott.
3. ROYAL AND STEEPHILL LAKES (East), 64-D-3-E, 63-M-14-E, by W. G. Q. Johnston.
4. FOSTER LAKE (South) and LA RONGE (Northwest), 74-A-2, 74-A-3, 74-A-4-E, 73-P-13-E, 73-P-14, by G. E. Ray.
5. ILE-A-LA-CROSSE (East), 73-O-E, by R. J. C. Munday.
6. MARCHEL–WINTEGO–SANDY BAY, 63-M-7, 63-M-9, 63-M-10, by S. J. T. Kirkland.

6A. PELICAN NARROWS (West), 63-M-2-W, by R. Macdonald.

7. LA LOCHE (North), 74-C-N, by T. I. I. Sibbald.

7A. LA LOCHE (North), 74-C-N, by J. F. Lewry. Foliation Trend Map.

**SUMMARY REPORT OF GEOLOGICAL INVESTIGATIONS CONDUCTED IN THE PRECAMBRIAN AREA OF SASKATCHEWAN, 1973,** by L. S. Beck and Geologists of the Precambrian Geology Division. Accompanied by eleven printed preliminary geological maps and one geochemical map. The Summary Report is out of print and may be consulted at the Publications Office, however the Preliminary Maps listed below are still available.

1. MANAWAN LAKE (South), 63-M-6-S, by S. J. T. Kirkland.
2. PYLYPOW LAKE (East), 74-A-5-E, by T. M. Fuh.
3. WATHAMAN LAKE (East), 64-D-13-E, by W. G. Q. Johnston.
4. MUDJATIK (Northeast), 74-B-NE, by R. J. C. Munday.
5. PYLYPOW LAKE (West), 74-A-5-W, by L. H. Forsythe.
6. MUDJATIK (Northwest), 74-B-NW, by T. I. I. Sibbald.
7. MUDJATIK (Northwest) Foliation Trend, 74-B-NW, by T. I. I. Sibbald.
8. THLUICHO LAKE (part of east half), BOB LAKE geology, 74-N-11-E (part), by B. P. Scott.
9. THLUICHO LAKE (part of east half), BOB LAKE geochemistry, 74-N-11-E (part), by B. P. Scott.
10. THLUICHO LAKE (part of east half), ELLIS BAY geology, 74-N-11-E (part), by B. P. Scott.
11. THLUICHO LAKE (part of east half), ELLIS BAY geochemistry, 74-N-11-E (part), by B. P. Scott.

**SUMMARY REPORT OF GEOLOGICAL INVESTIGATIONS CONDUCTED IN THE PRECAMBRIAN AREA OF SASKATCHEWAN, 1972,** by L. S. Beck and Geologists of the Precambrian Geology Division. Accompanied by six blueline preliminary geological maps, for which the final reports have not yet been issued. The Summary Report is out of print and may be consulted at the Publications Office, however the Preliminary Maps listed below are still available.

1. SANDY NARROWS (East), 63-M-3-E, by T. I. I. Sibbald.
2. HEWETSON LAKE (West), 74-A-4-W, by T. M. Fuh.
3. SOUTHEND (East), 64-D-6-E, by W. G. Q. Johnston.
4. MUDJATIK (Southeast), 74-B-SE, by R. J. C. Munday.
5. THLUICHO LAKE (part of east half), 74-N-11-E, (part), by B. P. Scott.
6. MUDJATIK (Southwest), 74-B-SW, by D. E. Pearson.

**SUMMARY REPORT OF GEOLOGICAL INVESTIGATIONS CONDUCTED IN THE PRECAMBRIAN AREA OF SASKATCHEWAN, 1971,** by L. S. Beck and Geologists of the Precambrian Geology Division. Accompanied by two blueline preliminary geological maps, for which final reports have not yet been issued.

1. MILTON ISLAND (West), 64-D-10-W, by T. I. I. Sibbald.
2. GLENNIE LAKE (West), 63-M-12-W, by J. F. Lewry.

**SUMMARY REPORT OF GEOLOGICAL INVESTIGATIONS CONDUCTED IN THE PRECAMBRIAN AREA OF SASKATCHEWAN, 1970,** by L. S. Beck and Geologists of the Precambrian Geology Division. Accompanied by two blueline preliminary geological maps, for which final reports have not yet been issued.

1. GLENNIE LAKE (East), 63-M-12-E, by J. F. Lewry.
2. SOUTHEND (West), 64-D-6-W, by W. G. Q. Johnston.

## REPORTS OF INVESTIGATION

Industrial Minerals Research Branch

$ 1.00 each unless otherwise indicated

RPI. No. 1 **CORE DRILLING FOR INDUSTRIAL MINERALS IN SASKATCHEWAN,** by G. S. Crawford and E. Y. Carlson, 1953.

*RPI. No. 2 **SEPARATION OF KAOLIN FROM KAOLINIZED SAND,** by J. W. Spyker, E. Y. Carlson and W. J. Babey, 1954.

*RPI. No. 3 **IMPROVING SASKATCHEWAN SWELLING BENTONITE BY CHEMICAL AND MECHANICAL TREATMENT,** by R. V. Tomkins, J. W. Spyker and E. Y. Carlson, 1954. Drilling gels, foundry bond.

*RPI. No. 4 **ACID ACTIVATION OF SASKATCHEWAN BENTONITES,** by A. A. Winer, 1954. Oil decolourization.

RPI. No. 5 **DEHYDRATION OF GLAUBER'S SALT BY TRANSITION POINT DEPRESSION,** by R. V. Tomkins and J. W. Spyker, 1955. Recovery method.

RPI. No. 6 **CORE DRILLING FOR INDUSTRIAL MINERALS IN SASKATCHEWAN,** by E. Y. Carlson and W. J. Babey, 1955.

RPI. No. 7 **THE RED DEER RIVER SILICA SAND DEPOSIT OF EAST CENTRAL SASKATCHEWAN,** by W. J. Babey, 1955. Glass raw material, foundry sand.

RPI. No. 8 **STURGEON LAKE MARL DEPOSIT,** by E. Y. Carlson, 1956. Price . . . . . .$2.00

RPI. No. 9 **LIGHT-WEIGHT CONCRETE AGGREGATES FROM SASKATCHEWAN CLAYS,** by Alec Sacuta, 1956.

*Out of print–may be consulted at the Publications Office.

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## TECHNICAL REPRINTS

*(No Charge)*

Beck, L. S. GENESIS OF URANIUM IN THE ATHABASCA REGION AND ITS SIGNIFICANCE IN EXPLORATION, published in the Canadian Mining and Metallurgical Bulletin, March 1970.

Brindle, J. W. and Guliov, Paul. FOSSILS FROM THE UPPER DEVONIAN BIG VALLEY FORMATION IN WESTERN SASKATCHEWAN, published in Bulletin of Canadian Petroleum Geology, Vol. 13, No. 2, 1965.

Buller, John V. DEVELOPMENT OF THE SASKATCHEWAN COMPUTERIZED WELL INFORMATION SYSTEM, 1964-1971, 1972.

Christopher, J. E., Kent, D. M., and Simpson, F. THE FUTURE PETROLEUM PROVINCES OF CANADA–THEIR GEOLOGY AND POTENTIAL, published in Canadian Society of Petroleum Geologists, June 1973.

Dennison, E. and Simpson, F. HYDROGEOLOGIC AND ECONOMIC FACTORS IN DECISION MAKING UNDER UNCERTAINTY FOR NORMATIVE SUBSURFACE DISPOSAL OF FLUID WASTES, NORTHERN WILLISTON BASIN, Saskatchewan, published in Underground Waste Management and Artificial Recharge, Vol. 2, 1973.

Dunn, Colin. WILLISTON'S DUPEROW SHOULD PRODUCE, published in Oil and Gas Journal, March 24, 1975.

Fuh, Tsu-Min. FORTRAN IV PROGRAM FOR CONSTITUENT ANALYSIS, May 1973.

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Fuzesy, L. M. FUTURE OIL SEEN FOR RARE WILLISTON PAY, published in Oil and Gas Journal, Jan. 27, 1975.

Gillard, D. R. and White, W. I. PLATO VIKING POOL–RESERVOIR ENGINEERING AND GEOLOGICAL STUDY, published in The Journal of Canadian Petroleum Technology, October–December, 1970.

Karvonen, Doug. THE SASKATCHEWAN POTASH PRORATIONING AND PRICE STABLILIZATION PROGRAM, published in The Mining and Metallurgical Bulletin, April, 1973.

Kendall, Alan C., and Simpson F. CALCITE LAYERS IN THE UPPERMOST MEDICINE HAT SANDSTONE (UPPER CRETACEOUS) OF SOUTHWESTERN SASKATCHEWAN, published in Bulletin of Canadian Petroleum Geology, Vol. 22, No. 1, 1974.

Kent, D. M. DEVONIAN OF MANITOBA AND SASKATCHEWAN. Published by the International Symposium of Devonian Systems, Canadian Society of Petroleum Geologists, Calgary, 1967.

Nichols, R. A. and Wyman, J. M. INTERDIGITATION VERSUS ARBITRARY CUTOFF: RESOLUTION OF AN UPPER CRETACEOUS STRATIGRAPHIC PROBLEM, WESTERN SASKATCHEWAN, published in The American Association of Petroleum Geologist's Bulletin, Vol. 53, No. 9, 1969.

Pearson, D. E. and Lawry, J. F. LARGE–SCALE FOLD INTERFERENCE STRUCTURES IN THE MUDJATIK RIVER AREA OF NORTHERN SASKATCHEWAN, published in Canadian Journal of Earth Sciences, Vol. 11, No. 5, 1974.

Stauffer, Mel R. GEOLOGY OF THE FLIN FLON AREA: A NEW LOOK AT THE SUNLESS CITY, 1974.

Suryam, J. V. GRAVITY-MAGNETICS FIND DEEP WILLISTON BASIN STRUCTURES, published in World Oil, April 1974.

Wallis, R. H. A GEOLOGICAL INTERPRETATION OF GRAVITY AND MAGNETIC DATA, NORTHWEST SASKATCHEWAN, published in Canadian Journal of Earth Sciences, Vol. 7, No. 3, 1970.

White, W. I. HEAVY OIL OCCURRENCES OF THE KINDERSLEY AREA, SASKATCHEWAN. Published in Oil Sands–Fuel of The Future, Memoir 3, Canadian Society of Petroleum Geologists, Sept., 1974.

# SASKATCHEWAN RESEARCH COUNCIL REPORTS

## GEOLOGY DIVISION

**$ 1.00 each**

**SRC. 1** **GEOLOGY AND GROUNDWATER RESOURCES, QU'APPELLE AREA,** Saskatchewan, by E. A. Christiansen, 1960.
Area of report: 62-K (part) and 62-L
Map scale: 1:250,000. Coloured.
Physiography, geomorphology, stratigraphy, glacial history, glacial drift, bedrock topography, surficial geology.

**SRC. 2** **GEOLOGY AND GROUNDWATER RESOURCES, REGINA AREA,** Saskatchewan, by E. A. Christiansen, 1961.
Area of report: 72-I.
Map scale: 1:250,000. Coloured.
Physiography, geomorphology, stratigraphy, glacial history, bedrock topography, surficial geology.

**SRC. 3** **GEOLOGY AND GROUNDWATER RESOURCES, WYNYARD AREA,** Saskatchewan, by J. E. Greer and E. A. Christiansen, 1963.
Area of report: 72-P.
Map scale: 1:250,000. Coloured.
Physiography, geomorphology, stratigraphy, glacial history, bedrock topography, surficial geology.

**SRC. 4** **GEOLOGY OF THE WILLOW BUNCH AREA,** Saskatchewan by R. R. Parizek, 1964.
Area of report: 72-H.
Map scale: 1:250,000. Coloured.
Late Cretaceous, Paleocene, Miocene, Pliocene. Bearpaw, Eastend, Ravenscrag, Wood Mountain Formations, Flaxville Gravel. Drift, Wisconsin till, radiocarbon dates.

**SCR. 5** **FORAMINIFERA FROM THE CRETACEOUS LEA PARK FORMATION IN SOUTH-CENTRAL SASKATCHEWAN,** by B. R. North and W. G. E. Caldwell, 1964.
Forty species of agglutined, calcareous-walled foraminifera.

**SRC. 6** **DISTRIBUTION OF NICKEL, COPPER AND ZINC IN BEDROCK OF THE EAST AMISK AREA,** Saskatchewan, by J. R. Smith, 1964.
Area of report: East Amisk Lake.
Map scale: 1:63,360. Coloured.
Geochemical prospecting.

**SRC. 7** **GEOLOGY AND GROUNDWATER RESOURCES OF THE KINDERSLEY AREA,** Saskatchewan, by E. A. Christiansen, 1965.
Area of report: 72-N.
Map scale: 1:250,000. Coloured.
Upper Cretaceous, Tertiary, Quaternary. Belly River, Oldman and Bearpaw Formations. Till, lacustrine clay, silt.

**SRC. 8** **THE LATE CRETACEOUS BEARPAW FORMATION IN THE SOUTH SASKATCHEWAN RIVER VALLEY,** by W. G. E. Caldwell, 1968.
Marine clays, sands. Ammonites, bentonites, baculites. Potassium-argon radiometric dates.

**SRC. 9** **FORAMINIFERA FROM THE LATE CRETACEOUS BEARPAW FORMATION IN SOUTH SASKATCHEWAN RIVER VALLEY,** by B. R. North and W. G. E. Caldwell, 1970.
Campanian–Maestrichtian. Marine faunas. Groundwater aquifers. Industrial minerals.

**SRC. 10** **GEOLOGY AND GEOCHEMISTRY OF THE HANSON LAKE AREA,** Saskatchewan. PART I: GEOLOGY, by L. C. Coleman and J. W. Gaskarth. PART II: GEOCHEMISTRY, by J. R. Smith, 1970.
Area of report: 63-L-10 (part) and 63-L-15 (part).
Map scale: 1:15,840. One coloured geological map. Three coloured geochemical maps.
Precambrian. Metavolcanics, metasediments, intrusives, metasomatic rocks. Kisseynew, Amisk.
Geochemistry as adjunct to assessing rock and ore forming processes.

SRC. 11 **STRATIGRAPHY OF THE UPPER CRETACEOUS JUDITH RIVER FORMATION IN THE CANADIAN GREAT PLAINS,** by J. R. McLean, 1971.
Non-marine clays, silts, sands. Source areas. Laramide orogeny, collapse structures.

SRC. 12 **GEOCHEMISTRY OF BEDROCK, OVERBURDEN, LAKE AND STREAM SEDIMENTS IN THE MUDJATIK AREA,** Saskatchewan, by D. R. Haughton, R. G. Arnold and J. W. J. Smith, 1973.
Copper, nickel, lead, molybdenum, uranium anomalies.

SRC. 13 **TRACE ELEMENT CONCENTRATIONS IN UNCONSOLIDATED SEDIMENTS ASSOCIATED WITH A MINERALIZED BOULDER TRAIN, FABLE LAKE AREA,** Saskatchewan, by D. R. Haughton, 1973.
Geochemistry. Glacial overburden, boulder fans. Sphalerite, galena.

SRC. 14 **COLLECTION ANALYSIS AND COMPUTER–BASED DOCUMENTATION OF GEOCHEMICAL SAMPLES IN THE PRECAMBRIAN OF SASKATCHEWAN,** by D. R. Haughton and J. W. J. Smith, 1974.
Computer documentation, data processing, data presentation. Geochemistry.

SRC. 15 In preparation. GEOCHEMISTRY OF BEDROCK, OVERBURDEN, LAKE AND STREAM SEDIMENTS IN THE STANLEY WEST AREA, Saskatchewan, by D. R. Haughton, R. G. Arnold and J. W. J. Smith.

## SASKATCHEWAN RESEARCH COUNCIL CIRCULARS

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*Circular No. 1 **A SUMMARY OF STUDIES COMPLETED TO DATE OF THE GROUNDWATER GEOLOGY AND HYDROLOGY OF THE BURIED MISSOURI AND YELLOWSTONE VALLEYS NEAR ESTEVAN,** by E. A. Christiansen and R. R. Parizek, 1961.

Circular No. 2 **Superseded by SRC. 10.**

Circular No. 3 **GEOHYDROLOGY OF THE MOOSE MOUNTAIN UPLAND IN SOUTHEASTERN SASKATCHEWAN,** by W. A. Meneley and S. H. Whitaker, 1970.

Circular No. 4 **THE CONCENTRATION OF METALS IN LAKE WATERS AND SEDIMENTS FROM SOME PRECAMBRIAN LAKES IN THE FLIN FLON AND LA RONGE AREAS,** by R. G. Arnold, 1970.

Circular No. 5 **CARBONATE ANALYSIS OF TILLS USING CONTINUOUSLY RECORDING GASOMETER,** by E. A. Christiansen and W. C. Ross, 1971.

Circular No. 6 **REGIONAL OBSERVATION WELL NETWORK,** by E. J. Jaworski and W. A. Meneley, 1973.

Circular No. 7 **INSTRUCTION FOR COLLECTION OF WATER SAMPLES AND COMPLETION OF WATER QUALITY CODING FORMS,** by J. E. Hagen and W. A. Meneley, 1975.

*Out of print – May be consulted at the Publications Office.

## SASKATCHEWAN RESEARCH COUNCIL MAPS

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*Map No. 1 PHYSIOGRAPHIC DIVISIONS OF SASKATCHEWAN, 1960.

*Map No. 2 ICE FRONTAL POSITIONS IN SASKATCHEWAN, 1965.

*Map No. 3 PREGLACIAL VALLEYS IN SOUTHERN SASKATCHEWAN, 1965.

Map No. 4 GEOLOGY AND GROUNDWATER RESOURCES OF THE BATTLEFORD AREA, 73-C, by E. A. Christiansen, 1967.
Scale: 1:250,000. Coloured.
Includes bedrock geology and topography of the bedrock surface. Cross sections of drift and bedrock are presented. Aquifers and potential water sources are delineated.

Map No. 5 GEOLOGY AND GROUNDWATER RESOURCES OF THE WOOD MOUNTAIN AREA, 72-G, by S. H. Whitaker, 1967.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

Map No. 6 GEOLOGY AND GROUNDWATER RESOURCES OF THE MELFORT AREA, 73-A, by W. A. Meneley, 1967.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

Map No. 7 GEOLOGY AND GROUNDWATER RESOURCES OF THE SASKATOON AREA, 73-B, by E. A. Christiansen, 1967.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

Map No. 8 GEOLOGY AND GROUNDWATER RESOURCES OF THE HUDSON BAY AREA, 63-C, D, by S. R. Moran and S. H. Whitaker, 1969.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

Map No. 9 GEOLOGY AND GROUNDWATER RESOURCES OF THE YORKTON AREA, 62-M, N, by J. A. Cherry and S. H. Whitaker, 1969.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

Map No. 10 GEOLOGY AND GROUNDWATER RESOURCES OF THE WYNYARD AREA, 72-P, by E. A. Christiansen, 1970.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

Map No. 11 GEOLOGY AND GROUNDWATER RESOURCES OF THE SWIFT CURRENT AREA, 72-J, by S. H. Whitaker, 1970.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

Map No. 12 GEOLOGY AND GOUNDWATER RESOURCES OF THE MELVILLE AREA, 62-K, L, by E. A. Christiansen, 1971.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

Map No. 13 GEOLOGY AND GROUNDWATER RESOURCES OF THE REGINA AREA, 72-I, by E. A. Christiansen, 1971.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

Map No. 14 GEOLOGY AND GROUNDWATER RESOURCES OF THE ROSETOWN AREA, 72-O, by E. A. Christiansen and W. A. Meneley, 1971.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

*Out of print – may be consulted at the Publications Office.

**Map No. 15** **GEOLOGY AND GROUNDWATER RESOURCES OF THE PRINCE ALBERT AREA**, 73-H, by E. A. Christiansen, 1973.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

**Map No. 16** **GEOLOGY AND GROUNDWATER RESOURCES OF THE PRELATE AREA**, 72-K, by P. P. David and S. H. Whitaker, 1973.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

**Map No. 17** **GEOLOGY AND GOUNDWATER RESOURCES OF THE SHELLBROOK AREA**, 73-G, by E. A. Christiansen, 1973.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

**Map No. 18** **GEOLOGY AND GROUNDWATER RESOURCES OF THE ST. WALBURG AREA**, 73-F, by E. A. Christiansen and S. H. Whitaker, 1973.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

**Map No. 19** **GEOLOGY AND GROUNDWATER RESOURCES OF THE WATERHEN RIVER AREA**, 73-K, by E. A. Christiansen and S. H. Whitaker, 1974.
Scale 1:250,000. Coloured.
See comments re Map No. 4.

**Map No. 20** **GEOLOGY AND GOUNDWATER RESOURCES OF THE WILLOW BUNCH AREA**, 72-H, by S. H. Whitaker, 1974.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

**Map No. 21** **GEOLOGY AND GOUNDWATER RESOURCES OF THE WEYBURN AREA**, 62-E, F, by S. H. Whitaker, 1974.
Scale: 1:250,000. Coloured.
See comments re Map No. 4.

Three additional maps covering the geology and groundwater resources of CYPRESS HILLS (72-F), KINDERSLEY (72-N) and PASQUIA HILLS (63-E, F) are planned.

## SASKATCHEWAN GEOLOGICAL SOCIETY

Reprints from **AN EXCURSION GUIDE TO THE GEOLOGY OF SASKATCHEWAN**, edited by Frank Simpson, Saskatchewan Geological Society, Special Publication No. 1, Summer 1973 . . . . . $ 2.00 each

1. GEOLOGICAL AND MINERAL EXPLORATION IN SASKATCHEWAN: A PRECIS OF ITS HISTORY TO 1970, by W. O. Kupsch.
2. GENERAL GEOLOGY OF THE LAC LA RONGE REGION (73-P), Saskatchewan, by L. H. Forsythe.
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13. GEOLOGICAL ROAD LOG OF THE AVONLEA–BIG MUDDY VALLEY AREA, by D. M. Kent and L. W. Vigrass.
14. GEOLOGICAL ROAD LOG OF THE CYPRESS HILLS–MILK RIVER AREA, Southeastern Alberta, by D. M. Kent and F. Simpson.
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16. GEOLOGICAL ROAD LOG FOR SASKATCHEWAN HIGHWAY 2: LA RONGE TO REINDEER LAKE, by L. H. Forsythe.
17. NORTHERN SASKATCHEWAN URANIUM TOUR: LA RONGE–RABBIT LAKE–BEAVERLODGE–CLUFF LAKE, by A. J. Gracie and T. H. de Zoysa.
18. GEOLOGY AND ORES OF THE HANSON LAKE, FLIN FLON AND SNOW LAKE AREAS OF SASKATCHEWAN AND MANITOBA, by L. C. Coleman, E. Froese, I. E. Hutcheon, D. P. Price, D. F. Sangster and M. R. Stauffer.

# NATIONAL TOPOGRAPHIC SYSTEM INDEX

Maps and reports which cover specific geographic locations may be found quickly using this index. Maps are located by their page number, reports are located by their number. All maps and reports that are referenced to the National Topographic System may be found in this index with the exception of the Preliminary Maps (pp. 80, 81).

DMR. = Department of Mineral Resources, Geological and Geophysical Reports.

SRC. = Saskatchewan Research Council Reports, Geology Division.

| NTS AREA | MAPS, BY PAGE | REPORTS, BY NUMBER, BY PAGE | |
|---|---|---|---|
| 62 | 41 | | |
| 62-E, F | 89 | | |
| 62-E, L | | DMR. 21. | 65 |
| 62-F | 44 | | |
| 62-F-W | 44 | | |
| 62-K, L | | SRC. 1. | 85 |
| 62-K | 44 | | |
| 62-M, N | 88 | | |
| 63 | 41 | | |
| 63-C, D, E, F | | DMR. 158. | 78 |
| 63-C, D | 88 | | |
| 63-C-W | 44 | | |
| 63-D-E | 44 | | |
| 63-E | 56 | | |
| 63-E-1 to 63-E-16 | 47 | | |
| 63-F | 56 | | |
| 63-F-4 | 47 | | |
| 63-F-5 | 47 | | |
| 63-F-12 | 47 | | |
| 63-F-13 | 47 | | |
| 63-K | 56 | | |
| 63-K-4 | 48 | | |
| 63-K-5 | 48 | | |
| 63-K-12, 13 | 43 | | |
| 63-K-12 | 48 | | |
| 63-K-12-W, 13-W, | | DMR. 62. | 69 |
| 63-K-12-W | 43 | | |
| 63-K-13 | 48 | | |
| 63-K-13-W | 43 | | |
| 63-L | 56, 61 | | |
| 63-L-NE | 44 | | |
| 63-L-1 to 63-L-16 | 48 | | |
| 63-L-9, 16 | | DMR. 14. | 65 |
| 63-L-9 | 46 | | |
| 63-L-10-E | | DMR. 117. | |
| 63-L-10-NW | | DMR. 30. | 66 |
| 63-L-13, 14-W, 11, 12 | | DMR. 114. | 74 |
| 63-L-13-W | 46, 57 | | |
| 63-L-14-E | | DMR. 31. | 66 |
| 63-L-15 | | DMR. 93. | 72 |
| 63-M | 44, 56, 61 | | |
| 63-M-1 to 63-M-16 | 48 | | |
| 63-M-1-E | | DMR. 23. | 65 |

| NTS AREA | MAPS, BY PAGE | REPORTS, BY NUMBER, BY PAGE | |
|---|---|---|---|
| 63-M-1-W | | DMR. 54. | 68 |
| 63-M-2-E | | DMR. 93. | 72 |
| 63-M-3-E | | DMR. 170. | 78 |
| 63-M-5-E | | DMR. 134. | 76 |
| 63-M-5-W | | DMR. 119. | 74 |
| 63-M-6-N | | DMR. 27. | 66 |
| 63-M-6-S | | DMR. 175. | 79 |
| 63-M-8-E | | DMR. 97. | 72 |
| 63-M-8-W | | DMR. 107. | 73 |
| 63-M-11 | | DMR. 22. | 65 |
| 63-M-12 | | DMR. 143. | 77 |
| 63-M-13 | | DMR. 106. | 73 |
| 63-M-15-E | | DMR. 156. | 78 |
| 63-N | 44, 56 | | |
| 63-N-4 | 48 | | |
| 63-N-5 | 48 | | |
| 63-N-5-W | | DMR. 97. | 72 |
| 63-N-12 | 48 | | |
| 63-N-13 | 48 | | |
| 64-SW | 45 | | |
| 64-D | 56, 61 | DMR. 102. | 72 |
| 64-D-E | 44 | | |
| 64-D-W | 44 | | |
| 64-D-1 to 64-D-16 | 48 | | |
| 64-D-4-E | | DMR. 127. | 75 |
| 64-D-4-SW | | DMR. 33, 148. | 66, 77 |
| 64-D-4-NW, 5-SW | | DMR. 1. | 64 |
| 64-D-5-E | | DMR. 130. | 75 |
| 64-D-5-NW | | DMR. 149. | 77 |
| 64-D-6 | | DMR. 145. | 77 |
| 64-D-9-E | | DMR. 40. | 67 |
| 64-D-9-W | | DMR. 35. | 67 |
| 64-D-10-W | | DMR. 153. | 77 |
| 64-D-13-E | 46, 57 | | |
| 64-D-13-W | 46, 57 | | |
| 64-D-14-E | 46, 57 | DMR. 39. | 67 |
| 64-D-14-W | 46, 57 | | |
| 64-D-15-W | 46, 57 | | |
| 64-E | 56, 61 | DMR. 94. | 72 |
| 64-E-E | 44 | | |
| 64-E-W | 44 | | |
| 64-E-1 to 64-E-16 | 49 | | |
| 64-E-5 | | DMR. 135. | 76 |
| 64-E-12-W | | DMR. 116. | 74 |
| 64-E-13-W | | DMR. 109. | 73 |
| 64-E-16 | | DMR. 74. | 70 |
| 64-L | 44, 56, 61 | DMR. 82. | 71 |
| 64-L-1 to 64-L-16 | 49 | | |
| 64-L-3, 4 | | DMR. 137. | 76 |
| 64-L-16 | | DMR. 144. | 77 |
| 64-M | 44, 56, 61 | DMR. 75. | 70 |
| 64-M-1 to 64-M-16 | 49 | | |
| 64-M-1 | | DMR. 146. | 77 |
| 64-M-9-E | | DMR. 155. | 78 |

| NTS AREA | MAPS, BY PAGE | REPORTS, BY NUMBER, BY PAGE | |
|---|---|---|---|
| 72 | 41 | | |
| 72-F-W | 44 | | |
| 72-F-7, 10 | | DMR. 20. | 65 |
| 72-G | 88 | | |
| 72-H | 89 | SRC. 4. | 85 |
| 72-I | 88 | SRC. 2. | 85 |
| 72-J | 88 | | |
| 72-J-W | | DMR. 32. | 66 |
| 72-K | 89 | | |
| 72-N | | SRC. 7. | 85 |
| 72-O | 44, 88 | | |
| 72-P | 88 | SRC. 3. | 85 |
| 73 | 41 | | |
| 73-A | 88 | | |
| 73-B | 88 | | |
| 73-C | 88 | | |
| 73-C-E | 44 | | |
| 73-C-W | 44 | | |
| 73-F | 56, 89 | | |
| 73-F-E | 44 | | |
| 73-F-W | 44 | | |
| 73-F-1 to 73-F-16 | 49, 50 | | |
| 73-G | 56 | | |
| 73-G-1 to 73-G-16 | 50 | | |
| 73-H | 56, 89 | | |
| 73-H-1 to 73-H-16 | 50 | | |
| 73-I | 56 | DMR. 147. | 77 |
| 73-I-1 to 73-I-16 | 50 | | |
| 73-I-15-N | | DMR. 103. | 72 |
| 73-I-15-NE | 46, 57 | | |
| 73-I-16-N | | DMR. 87. | 71 |
| 73-I-16-NE | 46, 57 | | |
| 73-I-16-NW | 46, 57 | | |
| 73-J | 56 | | |
| 73-J-1 to 73-J-16 | 50, 51 | | |
| 73-K | 56, 89 | | |
| 73-K-1 to 73-K-16 | 51 | | |
| 73-N | 56 | | |
| 73-N-1 to 73-N-16 | 51 | | |
| 73-O | 56, 61 | | |
| 73-O-1 to 73-O-16 | 51, 52 | | |
| 73-O-9-E | | DMR. 88. | 71 |
| 73-P | 56, 61 | | |
| 73-P (parts) | | DMR. 29. | 66 |
| 73-P-W | 44 | | |
| 73-P-1 to 73-P-16 | 52 | | |
| 73-P-1 | 47 | | |
| 73-P-1-E | 46, 57 | | |
| 73-P-1-W | 46, 57 | | |

| NTS AREA | MAPS, BY PAGE | REPORTS, BY NUMBER, BY PAGE | |
|---|---|---|---|
| 73-P-2-E | 46, 57 | | |
| 73-P-4-E, 5-E | | DMR. 138. | 76 |
| 73-P-5-W | | DMR. 136. | 76 |
| 73-P-6 | 46, 47 | | |
| 73-P-6-W, 3-W | | DMR. 152. | 77 |
| 73-P-6-E, 7-W | | DMR. 115-II | 74 |
| 73-P-7 | 46, 47 | | |
| 73-P-7-E, 8-W | | DMR. 4. | 64 |
| 73-P-7-W | | DMR. 115-I | 74 |
| 73-P-8 | 47 | | |
| 73-P-8-E | 46, 57 | DMR. 70. | 70 |
| 73-P-8-W | 46 | | |
| 73-P-9 | 47 | DMR. 78. | 70 |
| 73-P-9-E | 46, 57 | | |
| 73-P-9-W | 46 | | |
| 73-P-10 | 46, 47 | | |
| 73-P-10-E | | DMR. 56. | 68 |
| 73-P-10-W | | DMR. 41. | 67 |
| 73-P-11 | 47 | | |
| 73-P-11-E | 46, 57 | | |
| 73-P-11-W | 46, 57 | DMR. 42. | 67 |
| 73-P-12-E | | DMR. 77. | 70 |
| 73-P-12-W, 13-W | | DMR. 86. | 71 |
| 73-P-13 | 47 | DMR. 88. | 71 |
| 73-P-13-E | 46, 57 | | |
| 73-P-13-W | 46, 57 | | |
| 73-P-14 | 47 | | |
| 73-P-14-W | 46, 57 | | |
| 73-P-15 | 47 | DMR. 34. | 66 |
| 73-P-15-E | 46, 57 | | |
| 73-P-15-W | 46, 57 | | |
| 73-P-16-E | | DMR. 17. | 65 |
| 73-P-16-W | 46, 57 | DMR. 55. | 68 |
| 74 | 41 | | |
| 74-SE | 45 | | |
| 74-A | 56, 61 | DMR. 102. | 72 |
| 74-A-E | 44 | | |
| 74-A-W | 44 | | |
| 74-A-1 to 74-A-16 | 52 | | |
| 74-A-1-E | | DMR. 3. | 64 |
| 74-A-1-W | | DMR. 113. | 73 |
| 74-A-4-W | | DMR. 169. | 78 |
| 74-A-5-W | | DMR. 173. | 79 |
| 74-A-6-W | | DMR. 60. | 69 |
| 74-A-8-E | | DMR. 100. | 72 |
| 74-A-9-E | | DMR. 57. | 68 |
| 74-A-11-W | | DMR. 26. | 66 |
| 74-A-12-E | | DMR. 108. | 73 |
| 74-A-15-W | | DMR. 154. | 78 |
| 74-B | 56, 61 | DMR. 102. | 72 |
| 74-B-E | 44 | | |
| 74-B-W | 44 | | |
| 74-B-SW | | DMR. 166. | 78 |
| 74-B-1 to 74-B-16 | 52 | | |
| 74-B-2, 3, 6, 7 | 44 | | |

| NTS AREA | MAPS, BY PAGE | REPORTS, BY NUMBER, BY PAGE | |
|---|---|---|---|
| 74-B-3, 4, 5, 6 | 44 | | |
| 74-B-5, 6, 11, 12 | 44 | | |
| 74-B-5, 11-W, 12, 13, 14-W | | DMR. 50. | 68 |
| 74-B-5 | 46 | | |
| 74-B-6, 7, 10, 11 | 44 | | |
| 74-B-11-W | 46 | | |
| 74-B-12 | 46 | | |
| 74-B-13 | 46 | | |
| 74-B-14-W | 46 | | |
| 74-C | 44, 56, 61 | DMR. 102. | 72 |
| 74-C-1 to 74-C-16 | 52, 53 | | |
| 74-E-E | 44 | | |
| 74-F | 56, 61 | DMR. 94. | 72 |
| 74-F-E | 44 | | |
| 74-F-W | 44 | | |
| 74-F-1 to 74-F-16 | 53 | | |
| 74-G | 56, 61 | DMR. 94. | 72 |
| 74-G-E | 44 | | |
| 74-G-W | 44 | | |
| 74-G-1 to 74-G-16 | 53 | | |
| 74-G-4-W | | DMR. 118. | 74 |
| 74-G-5-W | | DMR. 132. | 76 |
| 74-H | 56, 61 | DMR. 94. | 72 |
| 74-H-1 to 74-H-16 | 53, 54 | | |
| 74-H-8-E | | DMR. 122. | 75 |
| 74-I | 56, 61 | DMR. 82. | 71 |
| 74-I-1 to 74-I-16 | 54 | | |
| 74-J | 56 | DMR. 82. | 71 |
| 74-J-1 to 74-J-16 | 54 | | |
| 74-K | 56 | DMR. 82. | 71 |
| 74-K-1 to 74-K-16 | 54 | | |
| 74-N | 56, 61 | DMR. 75, 112, 126. | 70, 73, 75 |
| 74-N-1 to 74-N-5 | 54, 55 | | |
| 74-N-7 to 74-N-16 | 55 | | |
| 74-N-7 | 43, 57 | | |
| 74-N-7-W | 44 | | |
| 74-N-8-W | 57 | | |
| 74-N-9, 10 | 43 | | |
| 74-N-9 | 43 | | |
| 74-N-9-W | 57 | | |
| 74-N-10 | 43, 57 | | |
| 74-N-11-E | | DMR. 167. | 78 |
| 74-N-12-N | | DMR. 81. | 71 |
| 74-N-12-S | | DMR. 111. | 73 |
| 74-N-13-E | | DMR. 71. | 70 |
| 74-N-13-W | | DMR. 61. | 69 |
| 74-N-14 | | DMR. 121. | 74 |
| 74-N-15 | | DMR. 131. | 75 |
| 74-N-16-E | | DMR. 91. | 71 |
| 74-N-16-W | | DMR. 142. | 77 |
| 74-O | 56, 61 | DMR. 75, 126. | 70, 75 |
| 74-O-1 to 74-O-16 | 55 | | |
| 74-O-8-E | | DMR. 69. | 69 |

| NTS AREA | MAPS, BY PAGE |
|---|---|
| 74-O-8-W | |
| 74-O-13-W | |
| 74-P | 56, 61 |
| 74-P-E | 44 |
| 74-P-1 to 74-P-16 | 55 |
| 74-P-5-E | |
| 74-P-5-W | |
| 74-P-6 | |
| 74-P-6-E, 7-W | |
| 74-P-6-E | |
| 74-P-6-W | |
| 74-P-7 | |
| 74-P-11-W | |
| 74-P-12-E | |
| 74-P-12-W | |

| REPORTS, BY NUMBER, BY PAGE | |
|---|---|
| DMR. 79. | 70 |
| DMR. 101. | 72 |
| DMR. 75, 126. | 70, 75 |
| DMR. 58. | 68 |
| DMR. 43. | 67 |
| DMR. 2. | 64 |
| DMR. 5. | 64 |
| DMR. 90. | 71 |
| DMR. 80. | 70 |
| DMR. 24. | 65 |
| DMR. 68. | 69 |
| DMR. 44. | 67 |
| DMR. 59. | 69 |

# INDEX

The words listed in this index were taken from numbered reports only, which fall into three categories: 1) DMR. – Department of Mineral Resources, Geological and Geophysical reports 2) SRC. – Saskatchewan Research Council reports 3) RPI. – Reports of Investigation, Industrial Minerals Research Branch.

Further information on subjects listed in the index may be found in various unnumbered reports (e.g. Miscellaneous reports, Periodical Statistical reports, Petroleum and Natural Gas reports, etc.)


**Age Dating** (See also Geochronology, Potassium-Argon dating)
DMR. 121, 126, 131; SRC. 4, 8.

**Agassiz – Glacial Lake**
DMR. 147.

**Allanite**
DMR. 2, 101.

**Amisk Group**
DMR. 93, 114, 117; SRC. 10,

**Ammonites**
SRC. 8

**Amphibolite**
DMR. 131, 132, 144, 156.

**Anglo-Rouyn Mine**
DMR. 115-II

**Anhydrites**
DMR. 125.

**Anomalies**
Geophysical–DMR. 39, 42, 77.
Helium–DMR. 49.
Magnetic–DMR. 41, 56, 70, 79.
Radioactive–DMR. 131.
Sedimentary–DMR. 63.
Uranium–SRC. 12.

**Aquifers–Groundwater**
SRC. 9.

**Arkose**
DMR. 109.

**Arsenopyrite**
DMR. 119, 132.

**Asbestos**
DMR. 14, 149.

**Ashern Formation**
DMR. 25, 164.

**Athabasca Formation** (=Athabasca Sandstone)
DMR. 69, 71, 79, 109, 118, 124, 132, 137.

**Athabasca – Martin Lake Series**
DMR. 61.

**Athabasca Tar Sands**
DMR. 12.

**Atlas Creek Member**
DMR. 151.

**Baculites**
SRC. 8

**Bakken Formation**
DMR. 37, 66, 133.

**Base Metals**
DMR. 62.

**Bearpaw Formation**
DMR. 20; SRC. 4, 7, 8, 9.

**Belly River Formation**
SRC. 7

**Bentonite**
DMR. 147; SRC. 8; RPI. 3.

**Beryl-bearing pegmatites**
(See Pegmatites)

**Bibliography**
DMR. 9.

**Bighorn Group**
DMR. 52, 180

**Big Valley Formation**
DMR. 164.

**Birdbear Formation**
DMR. 73, 99, 164.

**Bituminous Sands**
(See Sands)

**Black Bay Fault**
DMR. 101.

**Black Island Member**
DMR. 140.

**Black Lake Fault**
DMR. 80.

**Blairmore Formation**
DMR. 158.

**Bone Creek–Instow Fields**
DMR. 95, 110.

**Boulder Fans**
SRC. 13

**Brachiopods**
DMR. 45, 52.

**Breccia Zone**
DMR. 61.

**Brownell Lake Group**
DMR. 114.

**Callovian**
DMR. 105.

**Campanian–Maestrichtian**
SRC. 9.

**Cantuar Formation**
DMR. 151.

**Carbonate**
DMR. 52, 141.

**Cement Rock**
DMR. 158.

**Chalcocite**
DMR. 154.
**Chalcopyrite**
DMR. 1, 17, 30, 35, 43, 44, 54, 55, 56, 59, 79, 119, 127, 130, 132, 142, 144, 154, 155, 156.
**Charnockite**
DMR. 144.
**Charophytes**
DMR. 120, 161.
**Churchill Province**
DMR. 128.
**Clay**
DMR. 7, 32; SRC. 7, 8, 11; RPI. 9.
**Clastic Rocks**
DMR. 96.
**Coal**
DMR. 147.
**Coelenterata**
DMR. 52.
**Collapse Structures**
SRC. 11.
**Colorado Group**
DMR. 158.
**Computer (See also Data Processing)**
DMR. 84, 164, 165; SRC. 14.
**Concrete Aggregate**
RPI. 9
**Copper**
DMR. 34, 41, 56, 68, 70, 106, 115-II, 130, 138, 142, 148, 149, 154; SRC. 12.
**Corals**
DMR. 45.
**Cordierite**
DMR. 146.
**Core Drilling**
RPI. 1, 6.
**Correlation**
DMR. 13, 25, 38, 45, 51.
**Cretaceous**
DMR. 20, 87, 96, 103, 105, 147, 158; SRC. 4, 7, 8, 9, 11.
**Cypress Hills Formation**
DMR. 20.
**Daly Lake Group**
DMR. 108, 122, 144. 154.
**Data Processing and Data Presentation (See also Computer)**
SRC. 4.
**Davidson Evaporite**
DMR. 92.
**Dawson Bay Formation**
DMR. 25, 38, 164.
**Deadwood Formation**
DMR. 47, 64.
**Devonian**
DMR. 15, 38, 49, 66, 73, 92, 98, 99, 123, 164, 179.
**Dimmock Creek Member**
DMR. 151.
**Diorite**
DMR. 113, 115-I, 117.
**Dollard Oil Field**
DMR. 95, 110.
**Dolomites**
DMR. 25, 30, 125, 163.
**Drilling Gels**
RPI. 3
**Duperow Formation**
DMR. 73, 99, 164.
**Eastend Formation**
DMR. 20; SRC. 4.
**Economic Possibilities**
DMR. 8, 10, 13, 37, 47, 64, 65, 123, 154, 155, 156, 163.
**Electromagnetic Survey**
DMR. 28.
**Evaporites**
DMR. 25, 46.
(See also Davidson, Midale, Oungre)
**Faults**
Black Bay Fault–DMR. 101.
Black Lake Fault–DMR. 80.
Roberts Bay Fault–DMR. 23.
Stanley Fault–DMR. 127.
Tabbernor Lake Fault–DMR. 114.
**Faunas**
SRC. 9.
**Favel Formation**
DMR. 158.
**Flaxville Gravel**
SRC. 4.
**Fluorite**
DMR. 142.
**Foraminifera**
DMR. 53, 105, 161; SRC. 5.
**Foundry Bond**
RPI. 3.
**Frenchman Formation**
DMR. 20.
**Frobisher-Alida Beds**
DMR. 104.
**Gabbro**
DMR. 74, 115-I.
**Galena**
DMR. 30, 154; SRC. 13.
**Gas (See also Natural Gas)**
DMR. 38, 73, 99, 125.

**Geochemistry**
DMR. 97, 100, 106, 108, 109, 114, 115-I, 116, 119, 122, 123, 127, 130, 146, 148, 149, 154; SRC. 6, 10, 13, 14.
**Geochronology** (See also Age Dating, Potassium-Argon Dating)
DMR. 112.
**Geomorphology** (See also Topography)
SRC. 1, 2, 3.
**Geophysics**
DMR. 49, 69, 75, 82, 94, 102.
**Geophysical Anomalies**
(See Anomalies)
**Glacial Geology**
DMR. 21, 32, 67, 116, 147, 149; SRC. 1, 2, 3, 13.
**Glauber's Salt**
RIP. 5.
**Glen Ewen Field**
DMR. 48.
**Gneisses**
DMR. 58, 59, 78, 80, 90, 108, 109, 111, 117, 118, 121, 131, 132, 138, 144, 146.
**Gold**
DMR. 1, 3, 14, 54, 55, 87, 106, 113, 149.
**Granite** (See also Quartz Monzonite)
DMR. 44, 57, 59, 74, 86, 91, 101, 107, 109, 115-I, 115-II, 117, 119, 127, 132, 135, 136, 137, 138, 146, 149, 154, 155.
**Granitized Sediments**
DMR. 26.
**Granodiorite**
DMR. 26, 58, 81, 100, 111, 113, 118.
**Granodiorite—Diorite Series**
DMR. 131.
**Granulite**
DMR. 59, 101, 131, 144, 146.
**Graphite**
DMR. 106, 127, 132, 136, 149.
**Gravel**
DMR. 147.
**Gravelbourg Formation**
DMR. 161.
**Gravity Survey**
DMR. 124.
**Groundwater Resources**
DMR. 147; SRC. 1, 2, 3, 7, 9.
**Gypsum Spring Formation**
DMR. 18.
**Helium**
DMR. 49, 72, 92.
**Helium Anomalies**
(See Anomalies)
**Hematite**
DMR. 60.
**Hudsonian Orogeny**
DMR. 117.
**Hurwitz Group**
DMR. 155.
**Hydrocarbons** (See also Petroleum)
DMR. 76, 96, 99, 141, 151, 158, 163.
**Hydrology**
DMR. 151.
**Igneous Rocks**
DMR. 33, 34, 35, 41, 42, 43, 56, 70, 77, 79.
**Interlake Group**
DMR. 52.
**Intrusives**
DMR. 1, 3, 4, 5, 14, 17, 22, 23, 24, 26, 27, 29, 30, 31, 39, 40, 44, 54, 55, 59, 60, 61, 62, 68, 78, 100, 106, 108, 115-I, 115-II, 119, 121, 130, 134, 138, 142, 144, 149; SRC. 10.
**Iron**
DMR. 50, 58, 80, 148.
**Iron Sulphides**
DMR. 58.
**Isopach Maps**
DMR. 51, 164, 165.
**Jojay Lake Formation**
DMR. 113.
**Joli Fou Formation**
DMR. 105.
**Judith River Formation**
SRC. 11.
**Jurassic**
DMR. 18, 53, 95, 105, 110, 120.
**Kaolin**
DMR. 147; RPI. 2.
**Kaolinized Sand**
(See Sands)
**Kenoran Age**
DMR. 121, 131.
**Killdeer Beds**
DMR. 141.
**Kisseynew Complex** (=Kisseynew Gneisses, Kisseynew Group)
DMR. 23, 54, 93, 97, 106, 107, 117, 127, 130, 148; SRC. 10.
**Lacustrine Deposits**
SRC. 7.
**Laramide Orogeny**
SRC. 11.
**Lead**
DMR. 41, 135, 142, 148; SRC. 12.
**Lignites**
DMR. 20.
**Limestone**
DMR. 25, 117, 125, 163.

**Loess**
DMR. 32.
**Madison Formation**
DMR. 141.
**Madison Group**
DMR. 19.
**Mafelsic**
DMR. 115-II.
**Migmatitic**
DMR. 81.
**Magnesium**
DMR. 11.
**Magnetic Anomalies**
(See Anomalies)
**Magnetite**
DMR. 29, 50, 60, 119, 132.
**Magnetometer Surveys (Airborne)**
DMR. 50.
**Manganese**
DMR. 87, 147, 158.
**Mannville Group**
DMR. 96.
**Many Islands Belt**
DMR. 155.
**Marl**
RPI. 8.
**Martin Formation**
DMR. 71, 131.
**Masefield Shales**
DMR. 151.
**McCloud Member**
DMR. 151.
**Meadow Lake Formation**
DMR. 25.
**Megafossils**
DMR. 120.
**Mesozoic**
DMR. 19, 157.
**Metamorphic Rocks**
DMR. 41, 50, 56, 70, 77, 100.
**Metasediments**
DMR. 1, 3, 4, 5, 14, 17, 22, 23, 24
26, 27, 30, 31, 33, 34, 35, 40,
42, 43, 44, 54, 55, 57, 58, 59, 60,
61, 62, 68, 79, 81, 86, 87, 101,
103, 106, 108, 113, 114, 115-I, 115-II,
116, 119, 122, 127, 130, 132,
134-137, 142, 146, 149 154,
155, 156; SRC. 10.
**Metasomatic Rocks**
SRC. 10.
**Metavolcanics (See also Volcanics)**
DMR. 30, 34, 35, 40, 43, 55, 59
68, 79, 87, 103, 106, 113,
114, 115-I, 130, 134, 146,
156; SRC. 10.
**Meyers Lake Group**
DMR. 154.
**Midale Evaporite**
DMR. 163.
**Microfossils**
DMR. 73, 105.
**Migmatites**
DMR. 22, 27, 31, 39, 40, 54, 55,
61, 78, 81, 91, 101, 109,
111, 115-I, 119, 121, 138,
144, 154, 155.
**Mineralogy**
DMR. 123.
**Miocene**
SRC. 4.
**Missi Series (=Missi Group)**
DMR. 93, 114.
**Mississippian**
DMR. 19, 45, 48, 51, 66, 141, 157.
**Molybdenite (=Molybdenum)**
DMR. 35, 90, 122; SRC. 12.
**Morrison Formation**
DMR. 18, 161.
**Mylonite**
DMR. 58, 61, 101, 111.
**Natural Gas (See also Gas)**
DMR. 63, 76, 98.
**Nemeiben Lake**
DMR. 115-2.
**Nickel**
DMR. 68, 69, 115-II, 138, 142,
148, 149; SRC. 12.
**Nickeliferous Pyrrhotite-Chalcopyrite**
DMR. 44, 59, 79.
**Norite**
DMR. 44, 59, 68, 69, 79, 124.
**Oil (See also petroleum)**
DMR. 48, 73, 95, 99, 104, 125.
**Decolourization**—RPI. 4.
**Fields**—DMR. 19 (See also Rapdan,
Dollard, Bone Creek—Instow)
**Possibilities**—DMR. 15, 38.
**Production**—DMR. 15, 51.
**Reservoirs**—DMR. 46, 48, 151.
(See also petroleum)
**Oldman Formation**
SRC. 7.
**Ordovician**
DMR. 10, 30, 46, 52, 117, 140.
**Osikebuk Lake Group**
DMR. 114.
**Ostracods**
DMR. 53, 161.
**Ounge Evaporite**
DMR. 163.
**Palaeontology**
DMR. 8, 10.
**Palaeozoic**
DMR. 52, 76, 129, 147.

**Paleocene**
SRC. 4.
**Paragneisses**
DMR. 59, 131.
**Pegmatites**
DMR. 101, 113.
Beryl-bearing – DMR. 93
Radioactive–DMR. 2, 4, 14, 26, 27, 108.
Uranium-bearing–DMR. 35.
**Pense Formation**
DMR. 151.
**Petroleum (See also Oil, Gas)**
DMR. 63, 76, 84, 92, 98, 133.
**Petroleum Reservoirs (See also Oil Reservoirs)**
DMR. 84, 133.
**Phanerozoic**
DMR. 8, 10, 12, 13, 15, 18-21, 25, 32, 37, 38, 45-48, 51, 52, 53, 64-67, 73, 76, 92, 95, 96, 98, 99, 104, 105, 110, 120, 123, 125, 133, 140, 151, 157, 161, 163, 164, 167.
**Physiography**
SRC. 1, 2, 3.
**Piper Formation**
DMR. 18.
**Pitchblende**
DMR. 2.
**Pleistocene (See also Quaternary, Surficial Deposits)**
DMR. 12, 147.
**Pliocene**
SRC. 12.
**Potash**
DMR. 25, 123.
**Potassium-Argon Dating (See also Geochronology, Age Dating)**
SRC. 8
**Prairie Evaporite**
DMR. 25, 123, 164.
**Precambrian**
DMR. 1, 3, 4, 5, 14, 17, 22, 23, 24, 26, 27, 30, 31, 33-36, 39-44, 54-63, 68-71, 74, 77-81, 86, 87, 88, 90, 91, 93, 97, 100, 103, 106-109, 111, 113-117, 119, 121, 122, 127-132, 134-138, 142, 144, 146-149, 154, 155, 156; SRC. 10.
**Prospecting Recommendations**
DMR. 1, 22, 31, 33, 34, 40, 50, 61, 97, 126, 149.
**Pyrite**
DMR. 1, 54, 55, 60, 70, 77, 86, 119, 130, 132, 136, 142, 149.
**Pumicite**
DMR. 16.
**Pyrrhotite**
DMR. 1, 29, 34, 35, 43, 44, 55, 56, 59, 70, 77, 78, 79, 86, 119, 127, 130, 132, 136, 142, 144, 149.
**Quaternary (See also Pleistocene, Surficial Deposits)**
SRC. 7.
**Quartz Monzonite (See also Granite)**
DMR. 118.
**Radioactive Anomalies**
(See Anomalies)
**Radioactive Pegmatites**
(See Pegmatites)
**Radioactivity (See also Uraninite, Allanite, Zircon, Pitchblende)**
DMR. 5, 24, 91, 131, 142.
**Rapdan Oil Field (See also Oil Fields)**
DMR. 95, 110.
**Ratcliffe Beds**
DMR. 163.
**Ravenscrag Formation**
DMR. 20; SRC. 4.
**Red Beds**
DMR. 25.
**Reservoirs-Petroleum**
DMR. 84, 133.
**Rierdon Formation**
DMR. 18, 151, 161.
**Riding Mountain Formation**
DMR. 158.
**Roberts Bay Fault**
DMR. 23.
**Roseray Formation**
DMR. 151.
**Rush Lake Shales**
DMR. 151.
**Sands**
DMR. 147; SRC. 8, 11.
Bituminous–DMR. 12.
Kaolinized–RPI. 2
Silica–DMR. 87, 147, 158; RPI. 7.
**Sandfly Lake Group**
DMR. 154.
**Sandstone**
DMR. 30, 117, 124, 140, 141.
**Saskatchewan Group**
DMR. 73, 99.
**Sawtooth Formation**
DMR. 161.
**Schists**
DMR. 90.
**Sediments (See also Metasediments)**
DMR. 26, 50, 123.
**Sedimentary Anomalies**
(See Anomalies)
**Seismograph Survey (Reflection)**
DMR. 128, 129.

**Shale**
DMR. 25, 140, 147.
**Shaunavon Formation**
DMR. 95, 110, 161.
**Silica Sand**
(See Sands)
**Silts**
DMR. 32; SRC. 7, 11.
**Silurian**
DMR. 10, 52, 157.
**Silver**
DMR. 54.
**Soapstone**
DMR. 87.
**Sodium Sulphate**
DMR. 6; RPI. 5.
**Soft Rocks**
(See Phanerozoic)
**Souris River Formation**
DMR. 25, 92, 164.
**Sphalerite**
DMR. 1, 30, 54; SRC. 13.
**Stanley Fault**
DMR. 127.
**Strathallen Beds**
DMR. 141.
**Stratigraphy**
DMR. 8, 123; SRC. 1, 2, 3.
**Stylolite**
DMR. 163.
**Success Formation**
DMR. 151.
**Sulphides**
DMR. 3, 14, 27, 31, 39, 42, 57, 58, 80, 91, 137.
**Sundance Formation**
DMR. 18.
**Superior Province**
DMR. 128
**Surficial Deposits(=Surficial Geology-See also Pleistocene, Quaternary)**
DMR. 67; SRC. 1, 2, 3.
**Swan River Sandstone**
DMR. 147.
**Swift Formation**
DMR. 18, 161.
**Swift Shales**
DMR. 151.
**Syenodiorites**
DMR. 117.
**Tabbernor Lake Fault**
DMR. 114.
**Tazin Group**
DMR. 58, 69, 71.
**Tellus Information Retrieval Program**
DMR. 162.
**Tertiary**
DMR. 20, 158; SRC. 7.
**Three Forks Formation**
DMR. 37, 66.
**Till (See also Wisconsin Till)**
DMR. 12, 147; SRC. 4, 7.
**Topography (See also Geomorphology)**
DMR. 67; SRC. 2, 3.
**Torquay Formation**
DMR. 164.
**Tuffs**
DMR. 44.
**Tungsten**
DMR. 14.
**Ultramafics**
DMR. 115-1, 115-2, 149.
**Uraninite**
DMR. 2, 5.
**Uranium**
DMR. 20, 111, 112, 121, 126, 137, 158; SRC. 12.
**Uranium Anomalies**
(See Anomalies)
**Uranium—Mines, Prospects and Occurrences**
DMR. 126.
**Uranium-bearing pegmatites**
(See Pegmatites)
**Vanguard Formation**
DMR. 161.
**Vermilion River Formation**
DMR. 158.
**Viking Formation**
DMR. 65, 133.
**Viking Sand**
DMR. 85.
**Virgin Schist Group**
DMR. 118 132.
**Volcanic Ash**
(See Pumicite)
**Volcanics (see also Metavolcanics)**
DMR. 1, 3, 4, 14, 17, 22, 23, 27, 44, 54, 61, 62, 127, 135, 142, 149.
**Wapawekka Lake Group**
DMR. 114.
**Watrous Formation**
DMR. 161.
**Well Information—Computerized**
DMR. 162.
**Weyburn Lobe**
DMR. 21.
**Weyburn Lowland**
DMR. 21.
**Whitemud Formation**
DMR. 20.
**Williston Basin**
DMR. 18, 19, 140.

**Winnipeg Formation**
DMR. 47, 64, 140.
**Winnipegosis Formation**
DMR. 25, 98, 164.
**Wisconsin Till**
DMR. 32, 67; SRC. 4.
**Wollaston Fold-Belt**
DMR. 60, 135, 146, 154.
**Wood Mountain Formation**
SRC. 4.
**Zinc**
DMR. 41, 130, 135, 148.
**Zircon**
DMR. 2.
**Zortman Butte**
DMR. 161.

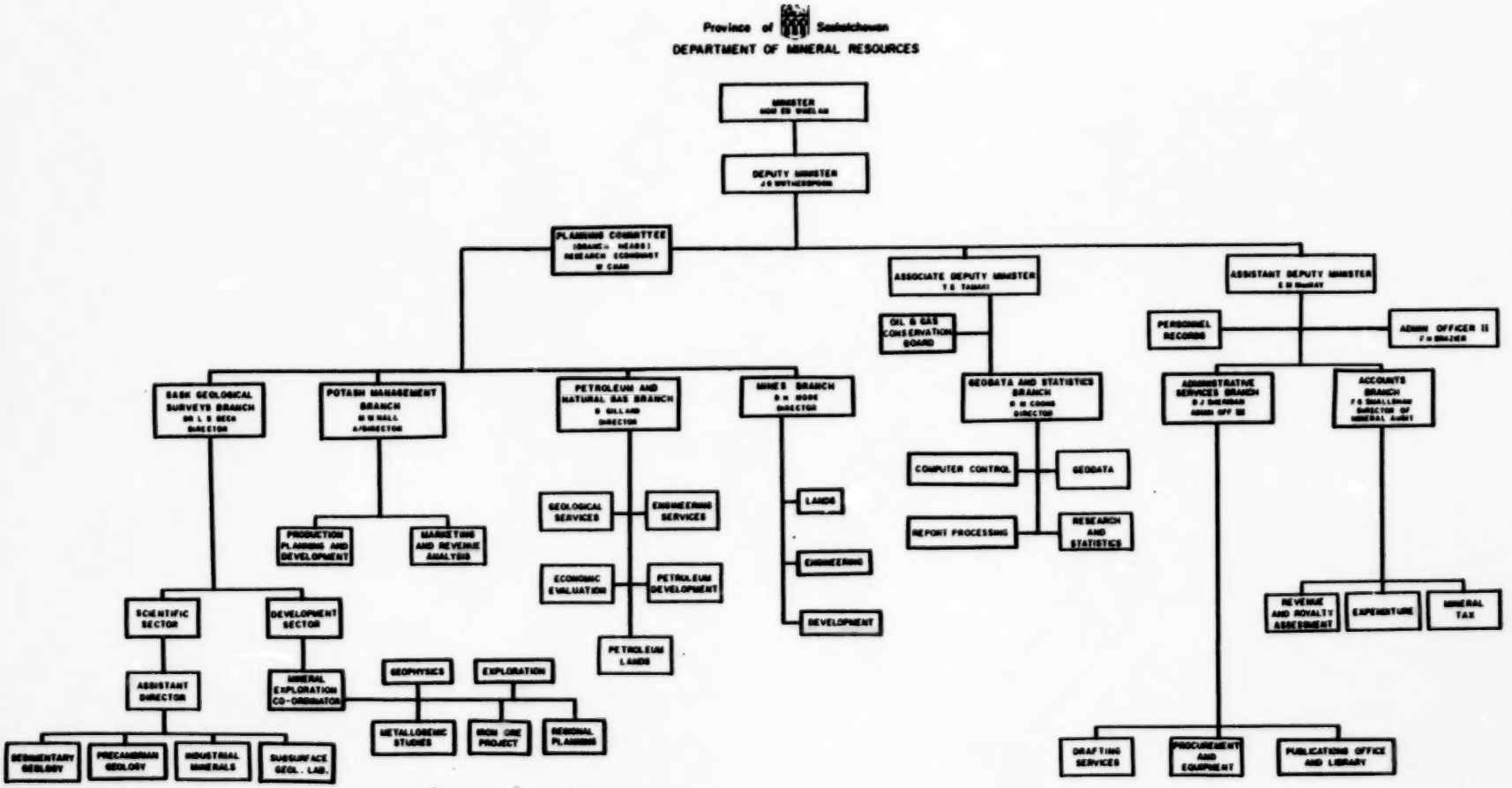


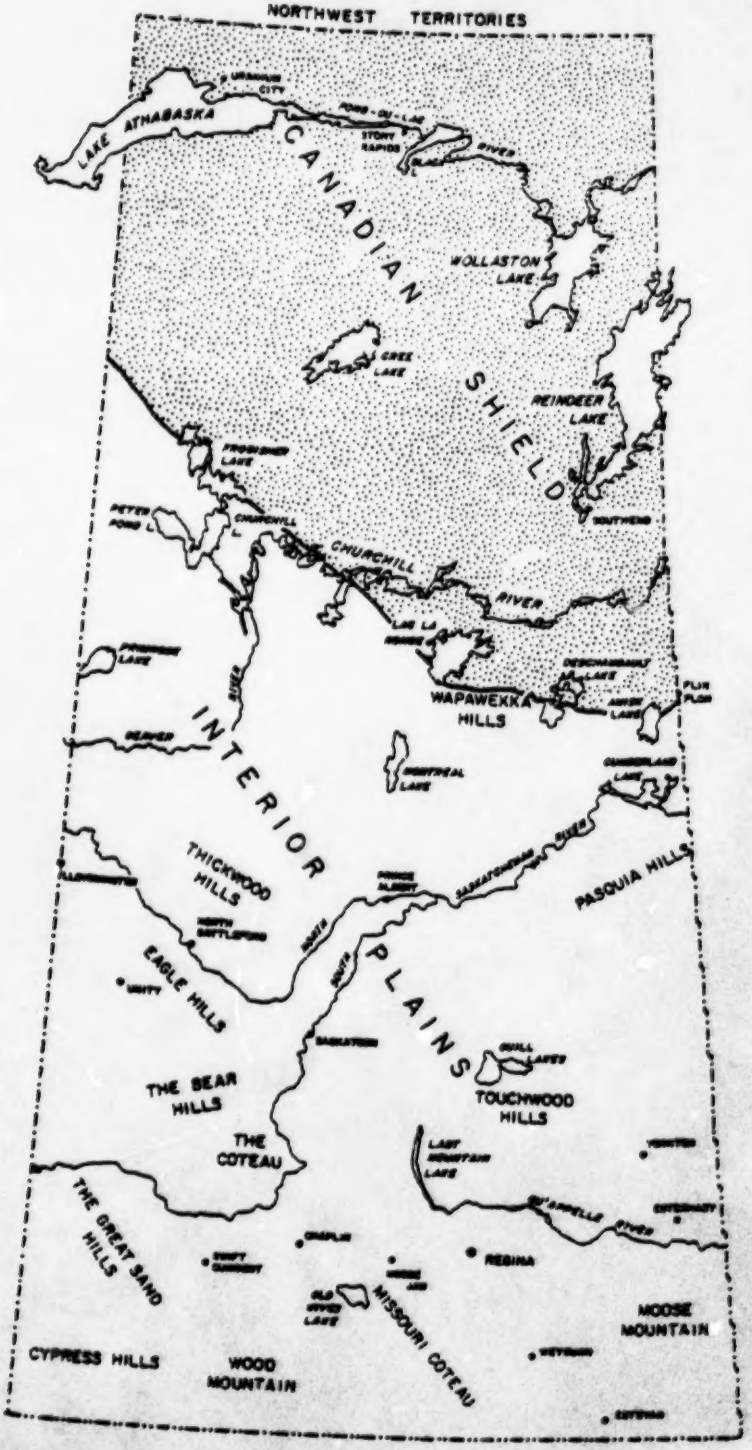

**Figure 15 – DEPARTMENT OF MINERAL RESOURCES ORGANIZATION CHART**

Saskatchewan
Mineral Resources

Miscellaneous Report 78-9

# 1978 Supplement To Catalogue of Maps and Publications, 1975

Saskatchewan



SASKATCHEWAN

MINERAL RESOURCES

# 1978 SUPPLEMENT

TO

# CATALOGUE

OF

# MAPS

AND

# PUBLICATIONS

1975


**Minister**

**Hon. JOHN R. MESSER**

**Deputy Minister**

**R. H. MONCUR**

## DELETIONS

On Page 8 of the 1975 Catalogue delete:
"The Oil and Gas Exploration, Development and Production Incentive Regulations, 1974". These regulations have been repealed.

On Page 39 of the 1975 Catalogue:
Delete the fourth and fifth lines immediately below NORTH BATTLEFORD (E-219). This formation has been remapped. See Page 10 of this Supplement for new edition of E-219.

On Page 44 of the 1975 Catalogue delete:
73-P-W, LAC LA RONGE W., 357A, 1936. Out of print.

On Page 47 of the 1975 Catalogue: delete the following words: "Available only as blueline prints". Two-colour printed maps are now available.

On Page 60 of the 1975 Catalogue delete: "PRICE LIST OF GEOPHYSICAL MAPS AND REPORTS IN THE PRECAMBRIAN AREA of SASKATCHEWAN (1970)". Out of print.

On Page 65 of the 1975 catalogue delete:
the asterisk preceeding DMR. 21, and the asterisk and note on the bottom of the page—Report 21 has been reprinted.

On Page 82 of the 1975 Catalogue delete the asterisks preceeding:
RPI. No. 2
RPI. No. 3
RPI. No. 4
These are now in print.
RPI. No. 8 is now out of print, but may be consulted at the Publications Office.

On page 83 of the 1975 Catalogue delete: "MINERAL RESOURCES AND POTENTIAL OF NORTHERN SASKATCHEWAN." by L. S. Beck, 1971. Out of print.

On Page 85 of the 1975 Catalogue delete: SRC. Reports 2 & 4. Out of print.

On Page 87 of the 1975 Catalogue delete: SRC Circulars No. 5 & 6. Out of print.

## ERRATA

On Page 41 of the 1975 Catalogue add the words "Compiled by R.J.C. Munday" to the entry: "MINERAL DEPOSITS MAP OF NORTHERN SASKATCHEWAN."

On Page 47 of the 1975 Catalogue: "BURKMAYER LAKE" should be "BUCKMAYER LAKE."

On Page 65 of the 1975 Catalogue under DMR. 24 the words "between 56°35′ and 56°45′ N. Lat., and 105°15′ and 105°30′ W. Long." should read: "between 59°17′ and 59°30′ N. Lat., and 104°35′ and 105°00′ W. Long."

On Page 66 of the 1975 Catalogue under DMR. 26 the words "between 59°17′ and 59°30′ N. Lat., and 105°35′ and 105°00′ W. Long." should read: "between 56°35′ and 56°45′ N. Lat., and 105°15′ and 105°30′ W. Long." Map scale should be: 1:31,680, not 1:63,360.

On Page 75 of the 1975 Catalogue under DMR. 122 the words: "Area of report: 74-N-8-E" should read: "Area of report: 74-H-8-E".

On Page 77 of the 1975 Catalogue under DMR. 145, "63-D-6" should read: "64-D-6".

## ADDENDA

### OPEN FILES

OPEN FILE 508, released, June 1, 1978

NATIONAL GEOCHEMICAL RECONNAISSANCE RELEASE NGR 19-1977

REGIONAL LAKE SEDIMENT AND WATER GEOCHEMICAL RECONNAISSANCE DATA FOR N.T.S. AREAS 64-L AND PART 64-M.

The file consists of:

A sample location map, scale 1:250,000;
A parts per million concentration map for each of 13 elements (U, Zn, Cu, Pb, Ni, Co, Ag, Mn, Fe, Mo, Hg, As, and Loss-on-ignition) analyzed in lake sediment samples:
A 223 page text of field observations, analytical and statistical data;
A parts per billion concentration map of U, F and pH in lake water samples.

OPEN FILE 529, released June 8, 1978

CANADA-SASKATCHEWAN URANIUM RECONNAISSANCE PROGRAM

Preliminary results of an experimental aeromagnetic gradiometer survey conducted in the fringe area of the Athabasca Basin in the immediate vicinity of the Key Lake uranium deposit.

AREA A, covering parts of N.T.S. areas 74-H-3, -4, -5. Flight line spacing: 300m; mean terrain clearance: 150m.

The file consists of:

A contoured total field aeromagnetic map, scale 1:25,000.
A contoured vertical gradiometer aeromagnetic map, scale 1:25,000.

OPEN FILE 530, released June 8, 1978

CANADA-SASKATCHEWAN URANIUM RECONNAISSANCE PROGRAM

Preliminary results of an experimental aeromagnetic gradiometer survey conducted in the fringe area of the Athabasca Basin southwest of Wollaston Lake.

AREA B - covering parts of N.T.S. areas 64-E-13, 64-L-4, 74-H-16, 74-I-1. Flight line spacing: 300m; mean terrain clearance: 150m.

The file consists of:

A contoured total field aeromagnetic map, scale 1:25,000.
A contoured vertical gradiometer aeromagnetic map, scale 1:25,000.

OPEN FILE 531, released June 8, 1978.

CANADA-SASKATCHEWAN URANIUM RECONNAISSANCE PROGRAM

Preliminary results of an experimental areomagnetic gradiometer survey conducted in the fringe area of the Athabasca Basin in the immediate vicinity of the Rabbit Lake uranium deposit.

AREA C, covering parts of N.T.S. areas 64-L-4, -5, and 74-I-1, -8. Flight line spacing: 300m; mean terrain clearance: 150m.

The file consists of:

A contoured total field aeromagnetic map, scale 1:25,000;
A contoured vertical gradiometer aeromagnetic map, scale 1:25,000;

for each of four portions of the total survey.

GEOPHYSICAL SERIES MAP 35464G, released June 15, 1978

FEDERAL-PROVINCIAL URANIUM RECONNAISSANCE PROGRAM-SASKATCHEWAN

Airborne gamma-ray spectrometer data obtained in a survey of N.T.S. area 64-D (REINDEER LAKE SOUTH). Flight line spacing: 5km.

The file consists of:

Seven contour maps, scale 1:250,000: total count, potassium, equivalent uranium and equivalent thorium concentrations, and eU/eTh, eU/K and eTh/K ratios.
Stacked profiles, horizontal scale 1:250,000, of the above seven parameters for each of the 25 flight lines in the survey.

## D.M.R. REPORTS

**DMR. 143** THE GEOLOGY OF THE GLENNIE LAKE AREA, SASKATCHEWAN, by J.F. Lewry, 1977 ..... $5.00
Area of report: 63-M-12.
Map scale: 1:63,360, coloured. Geomorphology overlay. Structure overlay.
Precambrian. Areal geology. Batholithic complexes. Metamorphosed volcanics. Metasediments.

## SASKATCHEWAN RESEARCH COUNCIL MAPS

Map No. 22 GEOLOGY AND GROUNDWATER RESOURCES OF THE CYPRESS AREA, 72-F, by S.H.Whitaker, 1976 ..... $1.00
Scale: 1:250,000, coloured.
Includes bedrock geology and topography of the bedrock surface. Cross sections of glacial drift and bedrock are presented. Aquifers and potential water sources are delineated.

## PRICE CHANGES

### CATALOGUE OF MAPS AND PUBLICATIONS, 1975.

New Price

Page 11
- D-240 ..... $2.00
- D-309 ..... $4.00
- D-359 ..... $2.00
- S-33 ..... $2.00
- Precambrian Mineral Disposition Maps .... $2.00
- Coal Disposition Maps ..... $2.00
- Township Plats ..... $3.00

Page 12
- Township Plats ..... $0.50

Page 14
- Geology And Production History Of The Rosebank Area ..... $2.00
- Geology And Production History Of The Hume Frobisher Beds Oil Pool And The Hume Midale Beds Oil Pool In The Hume Area ..... $2.00

Page 16
- Regional Well Maps ..... $7.00 each

Page 17
- Well Penetration Maps ..... $5.00 each
- Structure Test Hole Location Maps . $3.00 each

Pages 23-28
- Pool Area Structure Contour Maps .. $7.00 each

Pages 35 and 36
- Base Maps (all scales) ..... $3.00 each

Page 37
- Regional Contour Maps (all scales) .. $7.00 each

Page 40
- Stratigraphic Cross Sections ..... $7.00 each
- Structural Cross Sections ..... $2.00 each
- Correlation Chart ..... $2.00

Page 41
- Geological Maps 1:1,000,000 and 1:5,000,000. Prices as listed obtain, but are subject to change without notice.
- Index Map Of Saskatchewan ..... $2.00
- Geological Map Of Saskatchewan ..... $2.00
- Mineral Deposits Map Of Northern Saskatchewan ..... $2.00
- Mineral Development Map Of Southern Saskatchewan (small) ..... $2.00
- Mineral Development Map Of Southern Saskatchewan (large) ..... $5.00

Pages 43, 44 & 45
- Prices as listed obtain, but are subject to change without notice.

Page 46
- Map 1028G. Price as listed obtains, but is subject to change without notice.
- All other maps on page 46 ..... $2.00 each

Page 47
- Maps N-20 to N-29 ..... $2.00 each or $16.00 per set
- All other maps on pages 47 to 56 - prices as listed obtain, but are subject to change without notice.

Page 57
- Electromagnetic maps (1:31,680) .. $2.00 each
- Electromagnetic (AFMAG) maps (1:50,000) Prices as listed obtain, but are subject to change without notice.
- Seismic maps ..... $7.00 each

Page 58
- N-Series Seismic Maps ..... $7.00 each or $40.00 per set
- Gravity Maps ..... $7.00 each

Page 59
- N-14 ..... $7.00

Page 60
- Price List Of Geophysical Maps And Reports In The Sedimentary Area Of Saskatchewan: Part I ..... $2.00
- Price List Of Geophysical Maps And Reports In The Sedimentary Area Of Saskatchewan: Part II ..... $2.00
- Supplementary Price List Of Maps And Reports In The Sedimentary Area Of Saskatchewan (1975) ..... $2.00

Page 61
- 3 Index Maps With Printed Index ..... $7.00
- Individual Index Maps ..... $3.00 each
- Conductivity Anomaly Locations Maps $2.00 each

Page 62
- Indexes To Assessment Work ..... $3.00 each

Pages 64 to 79
- Geological And Geophysical Reports $3.00 each unless otherwise indicated

Page 64
- Report #7 ..... $7.00
- Report #9 ..... $7.00

Page 65
- Report #14 ..... $5.00
- Report #16 ..... $3.00

Page 67
- Report #36 ..... $5.00

Page 69
- Report #62 ..... $5.00
- Report #65 ..... $5.00
- Report #66 ..... $5.00

Page 70
- Report #72 ..... $3.00

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- Report #84 ..... $3.00
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- Report #115 (Part I) ..... $7.00
- Report #115 (Part II) ..... $7.00

Page 75
- Report #123 ..... $7.00
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- Report #170 ..... $5.00

Page 79
- Report #173 ..... $5.00
- Report #179 ..... $5.00
- Report #180 ..... $5.00

Page 80
- Reports (1970-1974) ..... $2.00 each
- Maps ..... $1.00 each
- Summary of Investigations, 1975 ..... $12.00

Page 82
- R.P.I. #8 ..... $3.00
- All other Reports on page 82 ..... $2.00 each

Page 83
- Coal Reserves In The Estevan Coalfield .. $2.00
- Coal Resources In The Wood Mountain—Willow Bunch Area ..... $2.00
- Seismic Investigation Of The Stenen Magnetic Anomaly ..... $3.00

Pages 85-89
- Prices as listed obtain, but are subject to change without notice.

Page 90
- Saskatchewan Geological Society reprints ..... $3.00 each

## TABLE OF CONTENTS


| | Page |
|---|---|
| DELETIONS from CATALOGUE OF MAPS AND PUBLICATIONS, 1975 | (i) |
| ERRATA | (ii) |
| ADDENDA | (iii) |
| PRICE CHANGES IN THE CATALOGUE OF MAPS AND PUBLICATIONS, 1975 | (v) |
| TABLE OF CONTENTS | 1 |
| FOREWARD | 2 |
| GUIDES TO THE NATIONAL TOPOGRAPHIC SYSTEM | |
| Figures 1, 2, 3, 4 | 3 |
| ACTS AND REGULATIONS | 7 |
| INDEX MAP FOR DISPOSITION MAPS, Figure 5 | 8 |
| DISPOSITION AND OWNERSHIP INFORMATION | 9 |
| STATISTICAL | 9 |
| PETROLEUM AND NATURAL GAS | |
| Reports and Publications | 10 |
| Regional Contour Maps | 10 |
| Well Penetration Maps | 10 |
| Index Map of Petroleum and Natural Gas Production and Disposition Areas — Figure 6 | 11 |
| Index Map — Area I — Figure 7 | 12 |
| Index Map — Area II — Figure 8 | 13 |
| Pool Area Structure Contour Maps | 14 |
| Pool Index | 15 |
| Index Map of 1:253,440 Maps draws on the Township Grid System, Figure 9 | 16 |
| Index Map of 1:126,720 Maps drawn on the Township Grid System, Figure 10 | 17 |
| OPEN FILES | 18 |
| EXPLORATION DATA MAPS, Figure 11 | 21 |
| REPORTS | |
| Index Map to Precambrian Geological Reports, Figure 12 | 22 |
| Geological Reports (DMR) | 23 |
| Geological Maps (available separately from the Reports) | 25 |
| Summary Reports of Geological Investigations | 27 |
| Technical Reprints | 28 |
| SASKATCHEWAN RESEARCH COUNCIL — GEOLOGY DIVISION | |
| Reports (SRC) | 30 |
| Circulars (SRC) | 31 |
| Maps (SRC) | 31 |
| AUTHOR INDEX | 32 |

## FOREWORD

This Supplement to the 1975 edition of the Catalogue of Maps and Publications contains only those items that have become available since the above catalogue was published. The format of this Supplement is identical to that of the catalogue, with the exception of the addition of Open Files, Exploration Data Maps and an Author Index — this author index is referenced to items appearing in both the 1975 Catalogue and this 1978 Supplement. Other changes, deletions, etc., appear on the pages which are pertinent to the particular items concerned.

All new publications will be announced as they become available. If your name does not already appear on our mailing list and you wish to receive these announcements please communicate with the Publications Office and your name will be placed on our mailing list.

When ordering maps or publications from this supplement please give all pertinent information such as: page number, map or report number, title of map or report, the area covered by map or report, scale of map, and where applicable the author's name. This will enable us to fill the order with the least possible delay.

Everything possible will be done to adhere to the price mentioned in this supplement. It is the policy of this department to change prices only when necessary and these changes are usually timed to coincide with a new issue of the catalogue or supplement. There are price changes applicable to various items in the CATALOGUE OF MAPS AND PUBLICATIONS, 1975—these price changes are listed in the PRICE CHANGES, CATALOGUE OF MAPS AND PUBLICATIONS, 1975, section that appears on page (v) of this 1978 SUPPLEMENT to the above catalogue. In the case of mail orders, prepayment is desired. Postage stamps are not acceptable.

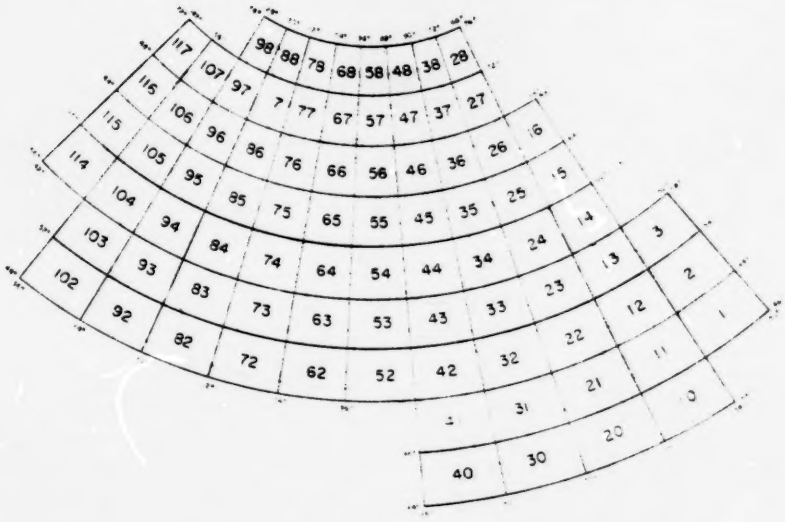
All maps will be folded unless otherwise requested. Should unfolded maps be requested and mailing tubes be required an additional charge of $0.75 per tube will be made. All postage, express and other mailing charges in excess of $0.50 will be added to the cost of the order.

**Regina, Saskatchewan,**
**Canada**

**May 24, 1978**

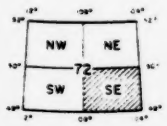
**Administrative Services Branch**
**Dept. of Mineral Resources**
**1914 Hamilton Street,**
**Regina, Saskatchewan**
**S4P 4V4**

**1. The basis of the system is a unit consisting of an area 4° in latitude by 8° in longitude.**

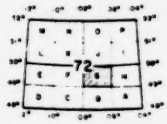



**2. 1:1,000,000 and one inch to sixteen miles (1:1,013,760) maps.**
The unit area in "1." would have map sheets printed at these scales—the map number takes this form ..... **72**

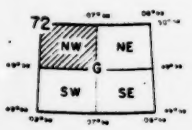
**3. 1:500,000 and one inch to eight miles (1:506,880) maps.**
Each of the map sheets in "2." is subdivided into four sheets numbered: S.E., S.W., N.W., N.E., whose number takes this form ..... **72-S.E.**




**4. 1:250,000 and one inch to four miles (1:253,440) maps.**
Each of the map sheets in "2." is subdivided into sixteen sheets lettered from A to P, whose number takes this form ..... **72-G**




**5. 1:100,000, 1:125,000 and one inch to two miles (1:126,720) maps.**
Each of the map sheets in "4." is subdivided into four sheets numbered: S.E., S.W., N.W., N.E., whose number takes this form ..... **72-G-N.W.**




**6. 1:50,000 and one inch to one mile (1:63,360) maps.**
Each of the map sheets in "4." is subdivided into sixteen sheets numbered from 1 to 16, whose number takes this form ..... **72-G-11**

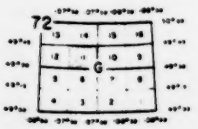



**Figure 1 — NATIONAL TOPOGRAPHIC SYSTEM OF NUMBERING MAP SHEETS**

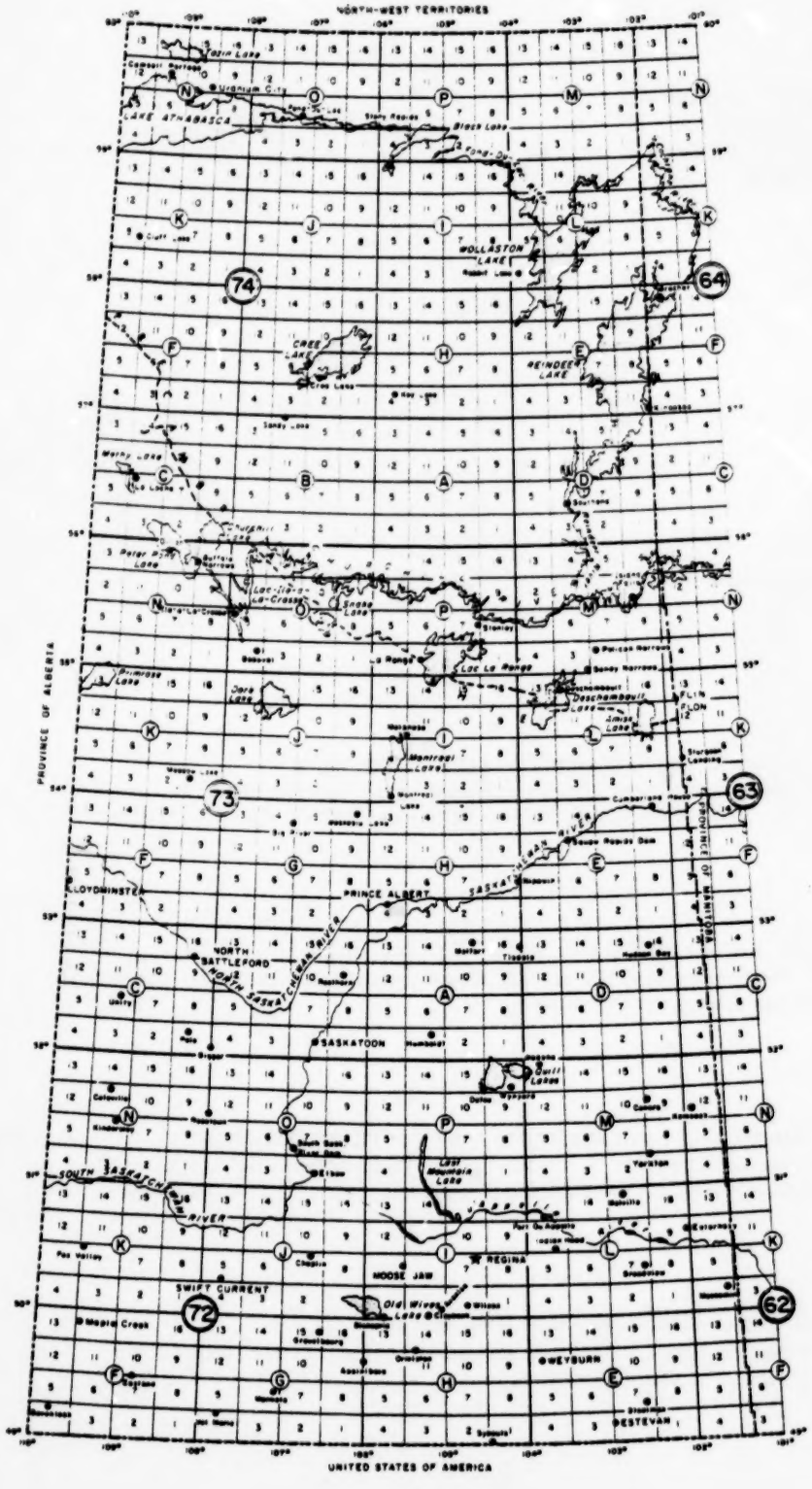



**Figure 2 — NATIONAL TOPOGRAPHIC SYSTEM OF MAP SHEET NUMBERS IN SASKATCHEWAN**

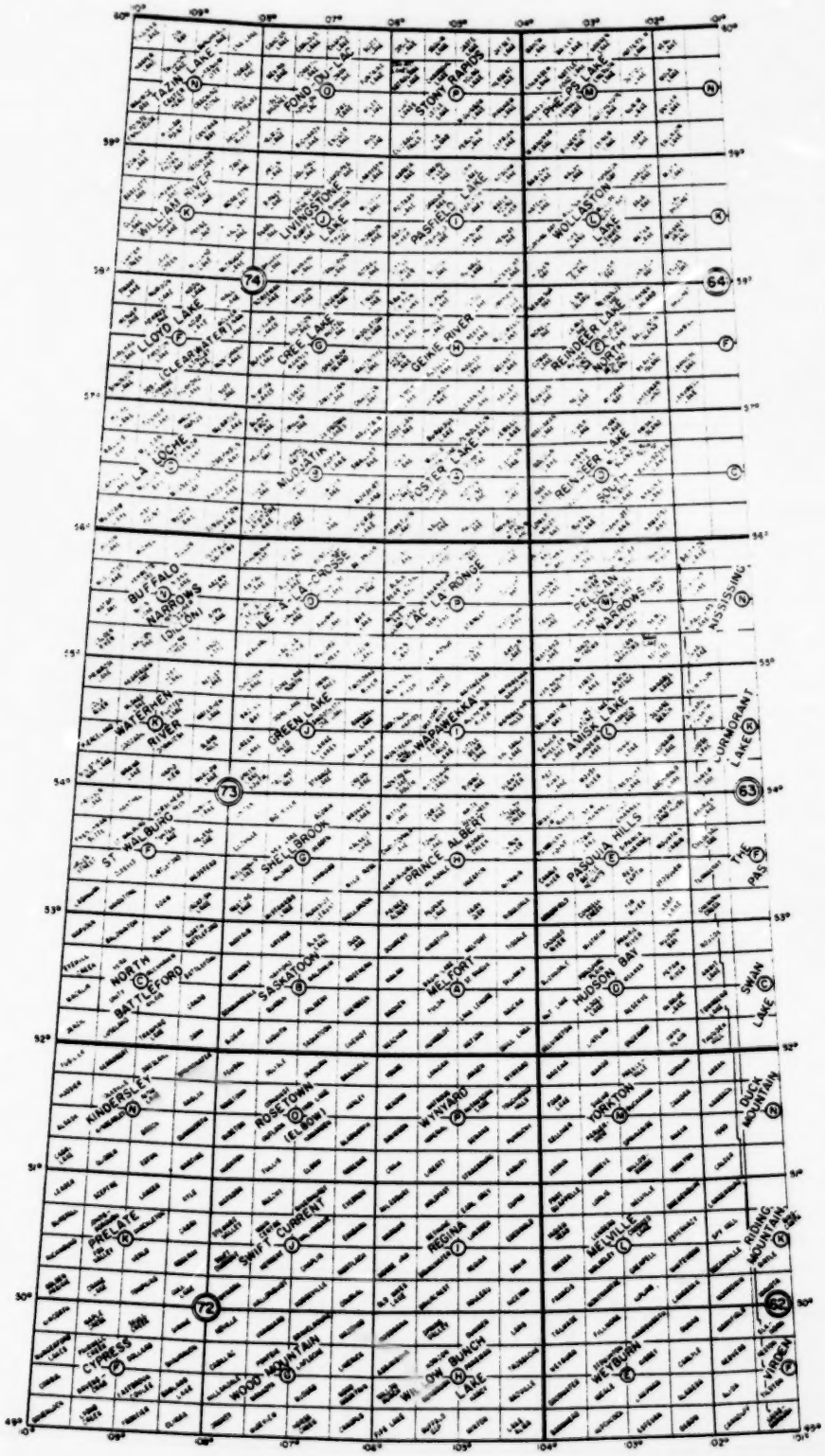



**Figure 3 — INDEX MAP OF MAP TITLES FOR MAPS DRAWN ON THE NATIONAL TOPOGRAPHIC SYSTEM**

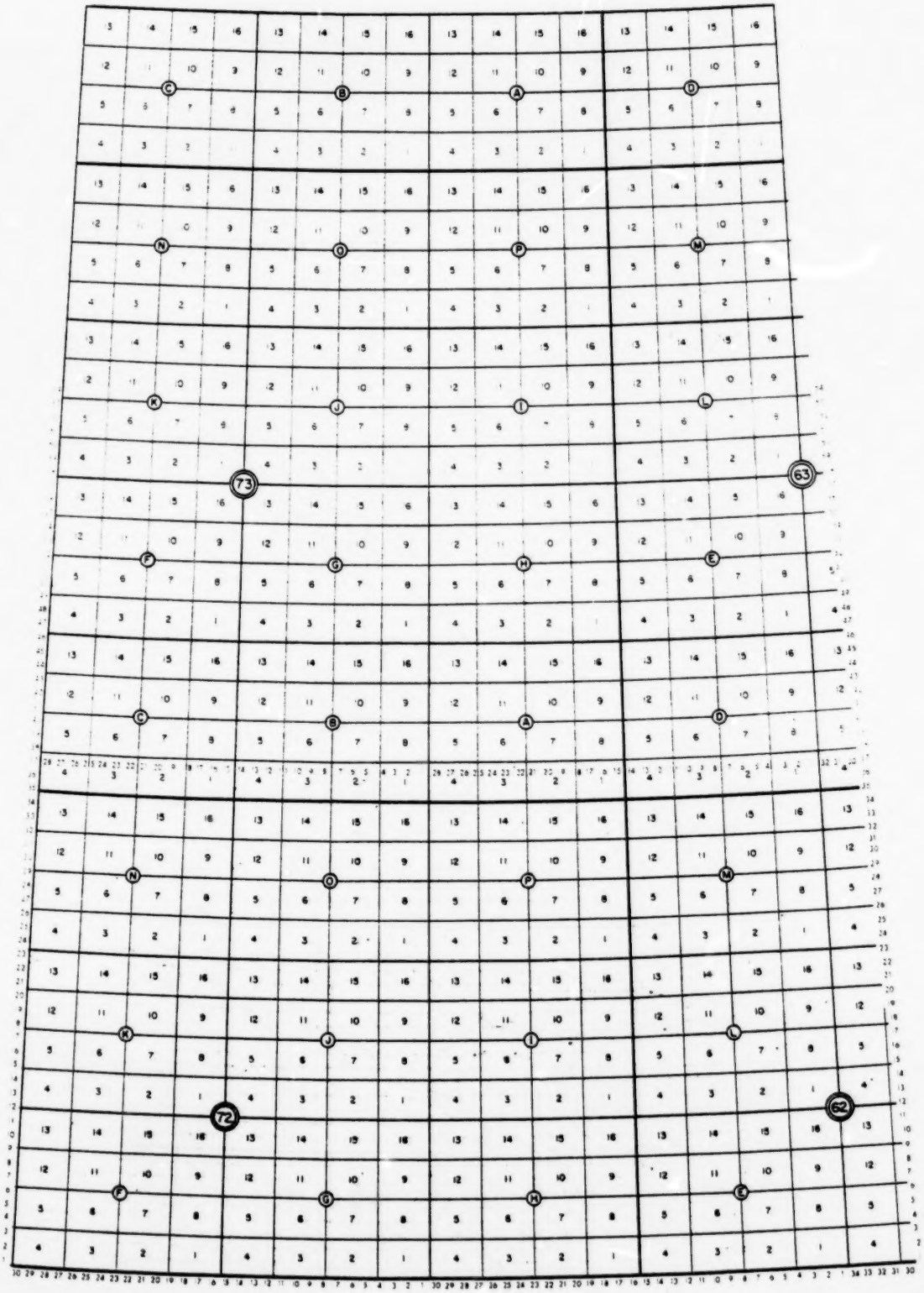


**Figure 4 — RELATIONSHIP OF THE NATIONAL TOPOGRAPHIC SYSTEM GRID TO THE TOWNSHIP GRID**

## ACTS
(No charge)

The Coal Conservation Act, 1976
The Oil Well Income Tax Act, 1978

## REGULATIONS
(No charge)

The Natural Gas Development and Conservation Regulations, 1976.
The Oil Well Income Tax Regulations, 1978
The Oil and Gas Incentive Regulations, 1978

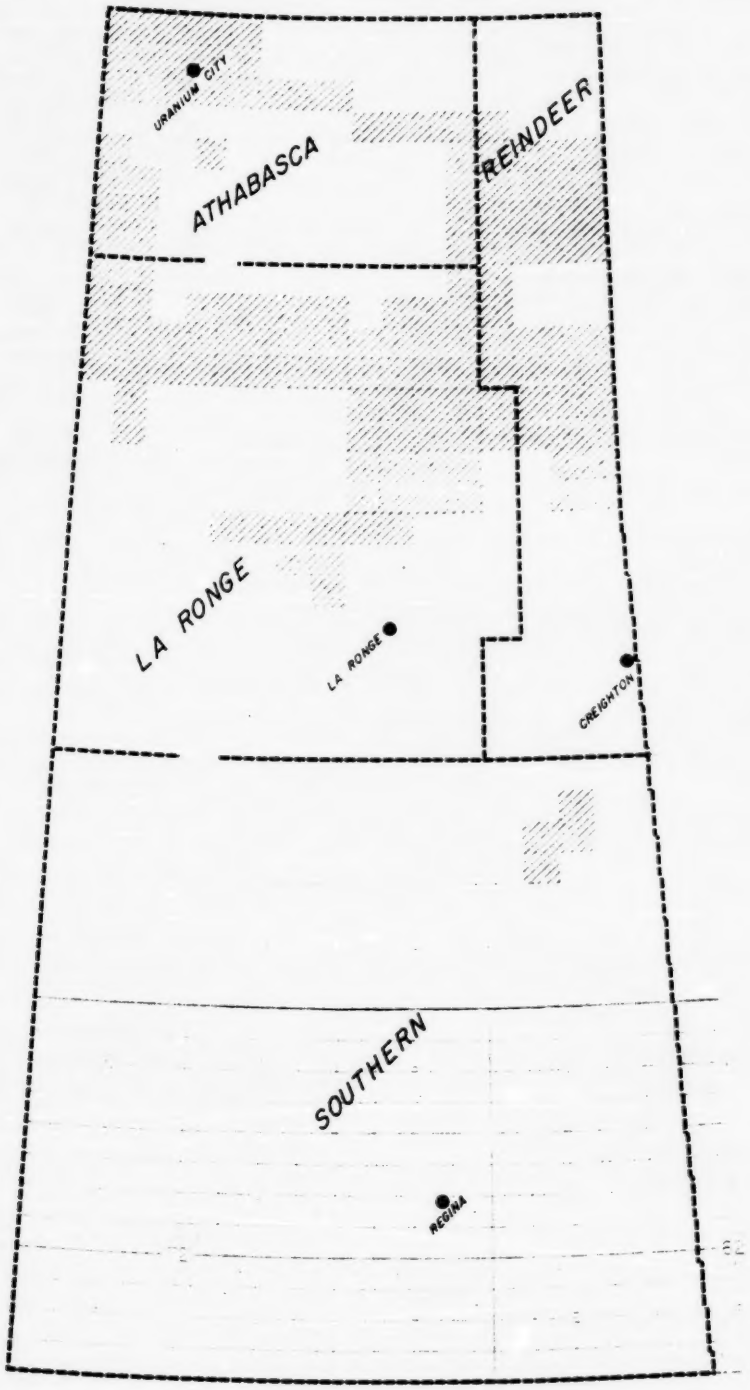



**Figure 5 — INDEX MAP OF 1:50,000 MINERAL DISPOSITION MAPS AND MINING DISTRICTS**

## DISPOSITION AND OWNERSHIP INFORMATION

(Latest revisions are supplied)

### MINERAL DISPOSITION MAPS

Scale: 1:50,000
Price $1.00 per map

(See Figure 5 for available coverage; see paragraph 6 of Figure 1 for map area number)

This new series of maps are part of the national metric program and as such, they supersede the 1:31,680 and 1:36,000 series of Mineral Disposition Maps. Figure 5 shows the coverage available at the time of printing, but as this series is presently being enlarged and as new areas are mapped at this scale, those areas previously mapped at the 1:31,680 and 1:36,000 scales will be phased out and superseded by the 1:50,000 scale maps as these become available and orders will be filled accordingly.

## STATISTICAL SERVICES

### STATISTICAL YEAR BOOKS

Prior to 1964 these Year Books contained Petroleum and Natural Gas statistics only. Beginning in 1964, these Year Books contain production and revenue statistics of all minerals produced in the province (including petroleum and natural gas).

PETROLEUM AND NATURAL GAS STATISTICAL YEAR BOOK:
1900-1954; 1955; 1958. ..... $2.00 each

PETROLEUM AND NATURAL GAS STATISTICAL YEAR BOOK:
1900-1959; 1961; 1962. ..... $3.00 each

MINERAL STATISTICAL YEAR BOOK: 1968; 1969; 1971: ..... $3.00 each

MINERAL STATISTICAL YEAR BOOK: 1972; 1974; 1975; 1976. ..... $5.00 each

The Year Books for the years: 1956, 1957, 1960, 1963, 1964, 1965, 1966, 1967, 1970 and 1973 are out of print, but may be consulted in the Publications Office.

### SASKATCHEWAN ENERGY FLOW ACCOUNTS, 1963-1975

(No charge)

Outlines on an annual basis all sources and end-uses of almost every type of commercial energy produced or consumed in Saskatchewan. The energy commodities covered are: crude oil, natural gas, coal, hydro, uranium, electricity and seven types of refined petroleum products.

Outlined in standard units, British Thermal Units and dollar values of the aforementioned commodity concerned are Saskatchewan's production, exports, imports, inventory changes, conversion losses and consumption by ten types of provincial energy commodity consumers.

It is planned to update and refine this publication at regular intervals.

## PETROLEUM AND NATURAL GAS WELL MAPS

### WELL PENETRATION MAPS

Scale: 1:253,440 (1" = 4 miles)
$7.00 each
(See Figure 9)

This map shows the location of all wells drilled under the Petroleum and Natural Gas Regulations. Symbols indicate the geological system (e.g., Jurassic, Mississippian) in which these wells are bottomed. Revised semi-annually.

**W-342 LA RONGE**

Townships 61-80; Manitoba border to the Third Meridian.

### REGIONAL CONTOUR MAPS

$7.00 each
Scale: 1:126,720 (1 inch = 2 miles)
(See Figure 10)

**COLD LAKE**

Map area: Townships 55-65; Range 15 West of the Third Meridian to the Alberta border.

This map is based on well control supplemented by structure test hole data.

T-16 STRUCTURE CONTOURS ON THE MANNVILLE GROUP

Contour Interval — 50 feet.

L. L. Williams

Scale: 1:253,440 (1 inch = 4 miles)
(See Figure 9)

**SWIFT CURRENT**

Map area: Townships 1-20; Third Meridian to the Alberta border.

The values are indicated for wildcat wells but are not indicated for all closely spaced field wells. This map is based upon well control and available seismic information.

E-208 STRUCTURE CONTOURS ON THE UPPER SHAUNAVON

Contour Interval — 50 feet

A. P. Schmid, K. H. von Ledebur

**NORTH BATTLEFORD**

Map area: Townships 41-60; Third Meridian to the Alberta border.

The values are indicated for wildcat wells but are not indicated for closely spaced field wells. This map is based on well control supplemented by structure test hole data.

E-219 STRUCTURE CONTOURS ON THE MANNVILLE GROUP

Contour Interval — 50 feet

L. L. Williams

## PETROLEUM AND NATURAL GAS INFORMATION

### REPORTS AND PUBLICATIONS

RESERVOIR ANNUAL, (latest edition will be supplied). . . . . $30.00
Contains oil and gas reserves data, development and producing data, information concerning enhanced recovery projects and related reservoir information.

GEOLOGY AND HEAVY OIL RESERVES OF THE MANNVILLE GROUP, LLOYDMINSTER-NORTH BATTLEFORD AREA, SASKATCHEWAN, by W.I. White and W.P. von Osinski, 1977.
Estimate of volume of original heavy oil in place derived from electrical log examination . . . . . $3.00

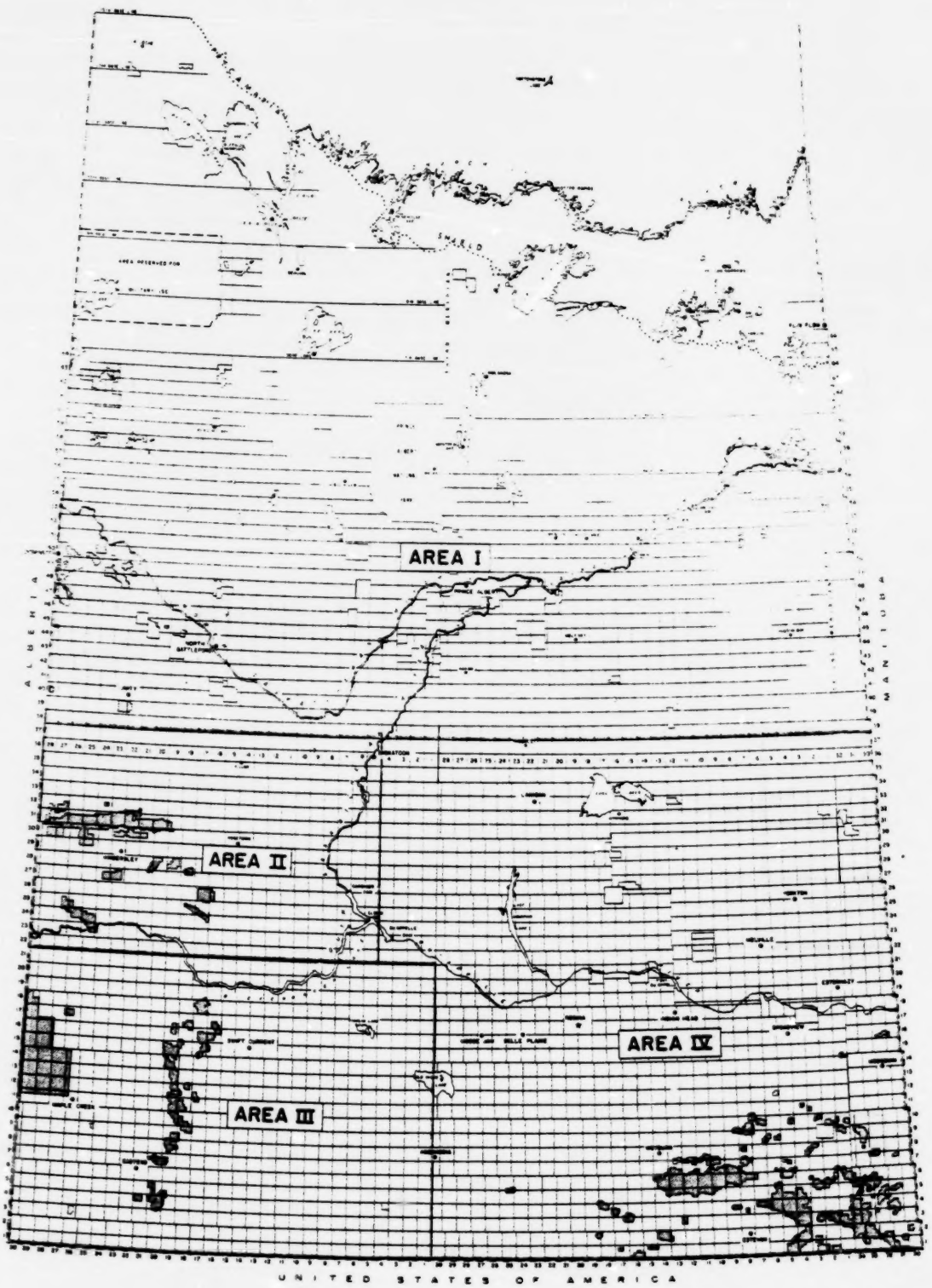



**Figure 6 — PETROLEUM AND NATURAL GAS PRODUCTION AND DISPOSITION AREAS**

**Figure 7 — INDEX MAP OF "K" SERIES MAPS AVAILABLE IN PETROLEUM AND NATURAL GAS PRODUCTION AND DISPOSITION AREA I**

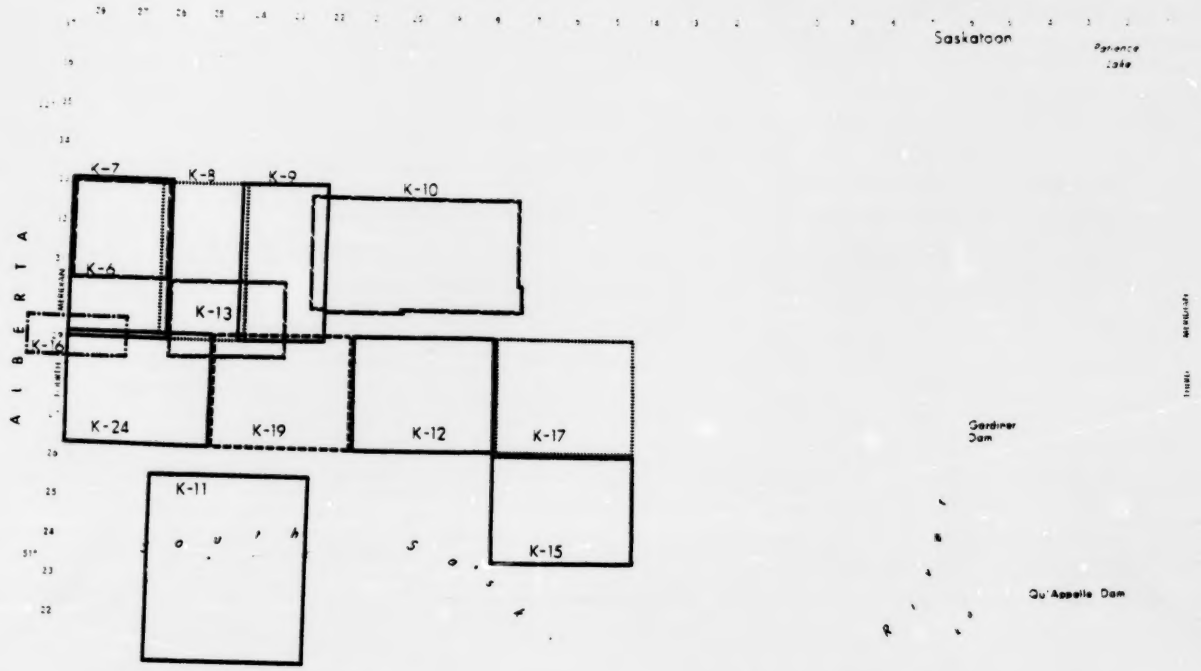



**Figure 8 — INDEX MAP OF "K" SERIES MAPS AVAILABLE IN PETROLEUM AND NATURAL GAS PRODUCTION AND DISPOSITION AREA II**

## POOL AREA STRUCTURE CONTOUR MAPS

Price: $7.00 each

(For Area boundaries see Figure 6)

These maps are updated as information becomes available and, because of necessity for frequent revision, are sold as prints of working drawings only. The quality of the prints available is limited by the fact that the contours are usually drawn in pencil.

All maps are at the scale of 1:50,000 and are contoured on a five metre interval. The specific value contoured is indicated at each control point.

### AREA I

(For map areas see Figure 7)

| Map No. | Horizon mapped | Pools on sheet |
|---|---|---|
| K-25 | MANNVILLE | Freemont Waseca Sand |
| K-33 | MANNVILLE | Celtic Blairmore Sands<br>Celtic Sparky Sand<br>Celtic Waseca Sand<br>East Part of Tangleflags Blairmore Sands<br>East Part of Tangleflags General Petroleum Sand<br>East Part of Tangleflags Lloydminster Sand<br>East Part of Tangleflags Sparky Sand<br>North Part of Pikes Peak Waseca Sand<br>North Part of Standard Hill Waseca Sand |

### AREA II

(For map areas see Figure 8)

| | | |
|---|---|---|
| K-13 | RIBSTONE CREEK SAND | South Part of Coleville-Smiley Viking Gas<br>Southeast Part of Hoosier Viking Gas<br>South Part of Smiley-Dewar Viking<br>Whiteside Victoria Sand Gas<br>Whiteside Viking Sand |

FOR REFERENCE ONLY.
DO NOT ORDER FROM THIS INDEX. TO DETERMINE EXACT MAP REQUIREMENTS SEE PAGE 14

## POOL INDEX

(For Area boundaries see Figure 6)

| Pool | Refer to maps numbered |
|---|---|
| **AREA I** (For map areas see Figure 7) | |
| CELTIC BLAIRMORE SANDS | K-33 |
| CELTIC SPARKY SAND | K-33 |
| CELTIC WASECA SAND | K-33 |
| FREEMONT WASECA SAND | K-25 |
| LASHBURN SOUTH WASECA SAND | K-3 |
| TANGLEFLAGS BLAIRMORE SANDS | K-1 and K-33 |
| TANGLEFLAGS GENERAL PETROLEUM SAND | K-1 and K-33 |
| TANGLEFLAGS LLOYDMINSTER SAND | K-1 and K-33 |
| TANGLEFLAGS SPARKY SAND | K-1 and K-33 |
| **AREA II** (For map areas see Figure 8) | |
| COLEVILLE-SMILEY VIKING GAS | K-8, K-9 and K-13 |
| HOOSIER VIKING GAS | K-6, K-7, K-8 and K-13 |
| SMILEY-DEWAR VIKING | K-8 and K-13 |
| WHITESIDE VICTORIA SAND GAS | K-8 or K-13 |
| WHITESIDE VIKING SAND | K-8 or K-13 |

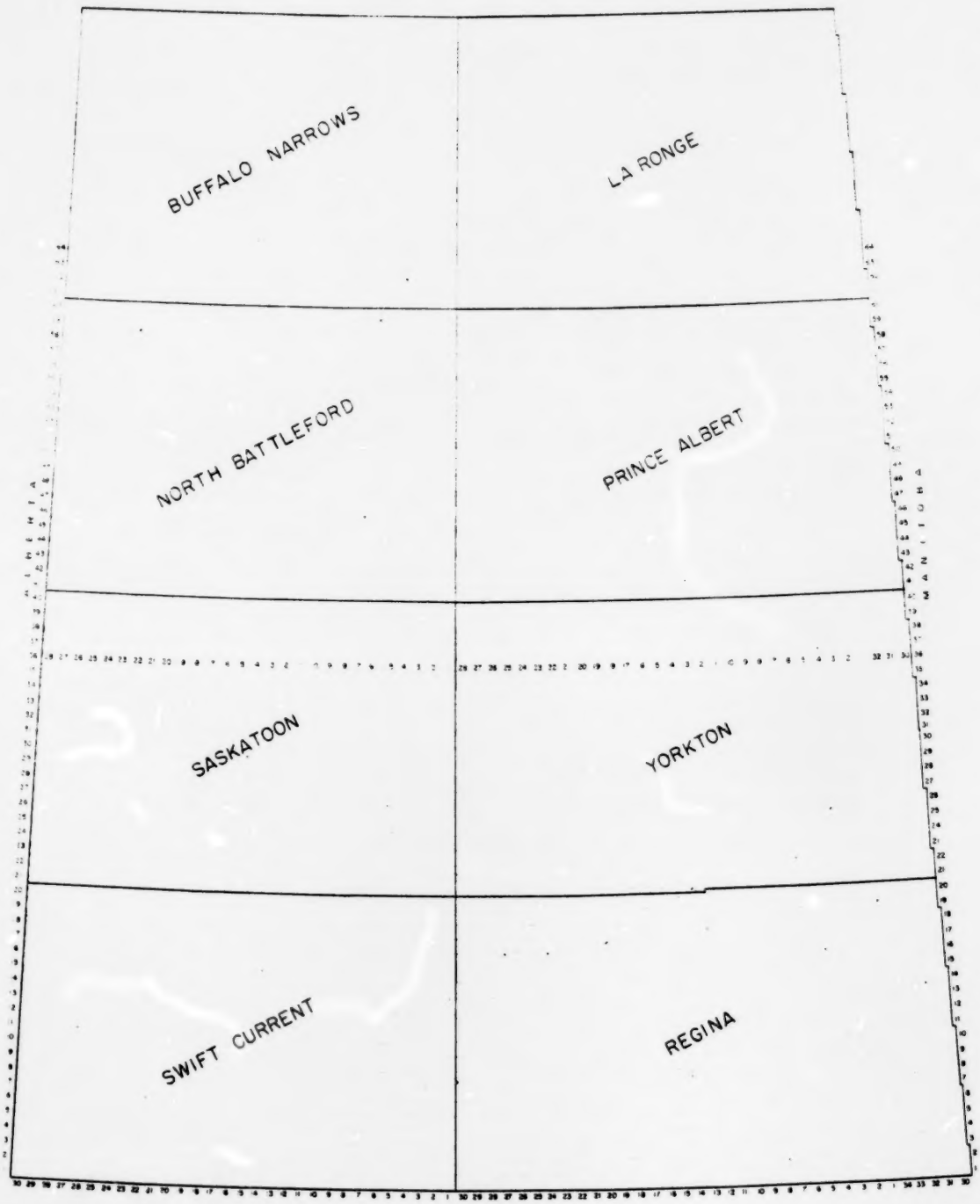



**Figure 9 — INDEX MAP OF 1:253,440 MAPS DRAWN ON THE TOWNSHIP GRID SYSTEM**

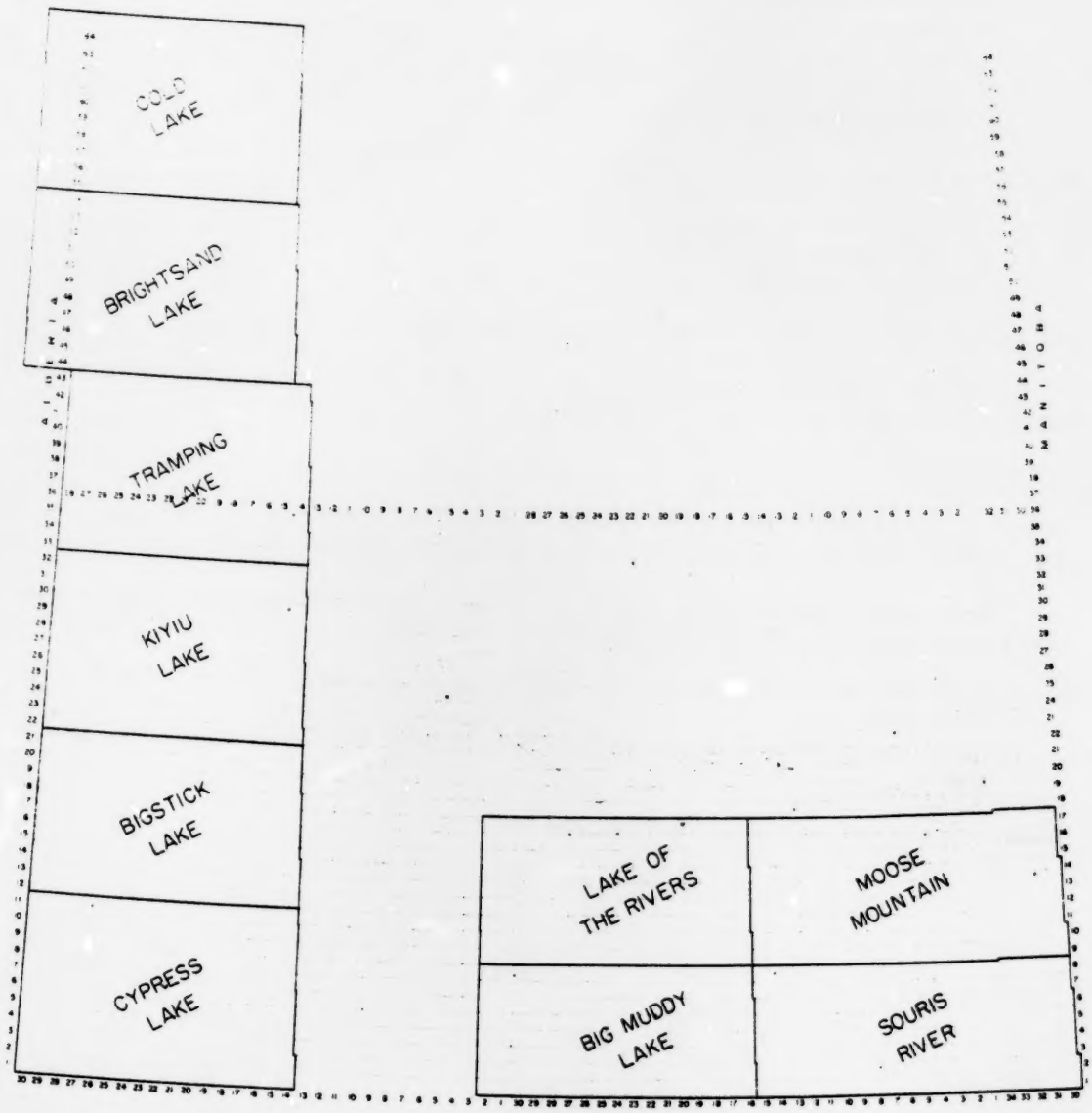



**Figure 10 — INDEX MAP OF 1:126,720 MAPS DRAWN ON THE TOWNSHIP GRID SYSTEM**

## OPEN FILES

These files of various surveys conducted in northern Saskatchewan as part of joint federal-provincial agreements are available for inspection at the following offices of the Department of Mineral Resources:

Room 1239, 1914 Hamilton St.
Regina, Sask., S4P 4V4

P.O. Box 70,
Creighton, Sask., S0P 0A0

P.O. Box 98,
La Ronge, Sask., S0J 1L0

P.O. Box 760,
Uranium City, Sask., S0J 2W0

and at the following federal Department of Energy, Mines and Resources office:

Geological Survey of Canada
601 Booth St.
Ottawa, Ont., K1A 0E8

and in some cases also at various regional offices of the Geological Survey of Canada.

Persons wishing to obtain complete sets of plans of a specific open file should contact the Geological Survey of Canada at the above address for particulars.

AIRBORNE RADIOACTIVITY MAPS AND PROFILES, CYPRESS HILLS AREA, SASKATCHEWAN (Parts of N.T.S. 72-F, -G, -K, -J). Geophysical Series No. 35672G. Released Dec. 22, 1977.

Reconnaissance radioactivity data obtained by Geological Survey of Canada airborne high-sensitivity gamma ray spectrometer system in the summer of 1976 consists of:

1. Contoured radioactivity parameters (total count, potassium, equivalent U, Th, and eU/eTh, eU/K, eTh/K ratios).
2. Radioactivity of the seven parameters in profile for 18 individual fight lines shown on five different sheets.

Blueline prints may be ordered from the Publications Office.

**NATIONAL GEOCHEMICAL RECONNAISSANCE SAMPLING PROGRAM**

Northern Saskatchewan

OPEN FILE 266, released Aug. 5, 1975.

Open File Geochemical data acquired under the CANADA-SASKATCHEWAN Agreement on Mineral Exploration and Development pertaining to the area of the La Ronge-Reindeer-Flin Flon triangle.

The geochemical data are presented on four geological base sheets on a scale of 1:250,000 (total 48 sheets).

| | |
|---|---|
| Sheet 1 | 63-M, 63-L(N¼), 63-K(NW¼) |
| Sheet 2 | 73-P, 73-1(N¼), 73-0(E¼) |
| Sheet 3 | 74-A |
| Sheet 4 | 64D |

Analytical results of sampling, indicating concentration of eleven elements (Cu, Zn, Mn, Fe, Ni, Co, Ag, Pb, Mo, U, As), are map-displayed separately for each sheet-area.

East-Central Saskatchewan

**REGIONAL LAKE SEDIMENT GEOCHEMICAL RECONNAISSANCE DATA**

OPEN FILE 488, released Oct. 5, 1977.

Further analysis of lake sediment samples collected for previous project (re Open File 266 Aug. 1975) provides revised concentrations of uranium and previously unreported concentrations of mercury. Uranium concentration was determined by delayed neutron counting rather than by fluorimetric method; mercury concentrations were determined by flameless atomic absorption.

OPEN FILE 494, released Oct. 25, 1977.

1976 GRADIOMETER SURVEY OVER THE ATHABASCA SANDSTONE FORMATION NORTHERN SASKATCHEWAN.

This file of eleven written pages and four diagrams presents vertical gradiometer data collected in a (Geological Survey of Canada) survey conducted in 1976. The area flown is a southeast-northwest trending strip extending from Long 105°30′, Lat 57°15′ to Long 106°00′, Lat 58°30′ in NTS areas 74-H and 74-1, comprised of eight parallel lines with 450m separation.

Designed to assess the value of future gradiometer surveys over the fringe areas of the Athabasca Basin, this survey was cost-shared with the Saskatchewan Department of Mineral Resources. This project is part of the Canada-Saskatchewan Uranium Reconnaissance program.

**AIRBORNE GAMMA-RAY SPECTROMETRIC MAPS AND PROFILES**

**Saskatchewan**

(See accompanying table)

Open file airborne gamma-ray spectrometer data acquired under the Federal-Provincial Uranium Reconnaissance Program and The Canada Saskatchewan Agreement on Mineral Exploration and Development in Northern Saskatchewan.

The airborne data are presented as:

(1) contour maps of: total count; potassium, equivalent uranium, and equivalent thorium concentrations; and eU/eTh, eU/K and eTh/K ratios. (a total of 7 maps).

(2) stacked profiles of the seven radiometric parameters listed above for each flight line.

| NTS AREA | GSC OPEN FILE NO. Geophysical Map No.s | YEAR RELEASED | SCALE OF CONTOUR MAPS | SCALE OF STACKED PROFILES | FLIGHT LINE SPACING | No. of FLIGHT LINES AND DIRECTION |
|---|---|---|---|---|---|---|
| PRECAMBRIAN AREA NORTHERN SASKATCHEWAN | 169 | early 1974 | 1:1,000,000 | 1:250,000 | 50 km approx. | 16, E-W |
| WOLLASTON L. 64-L-1, 2, 7, 8 | 242 | April 1, 1975 | 1:250,000 | 1:250,000 | 1.6 km | 38, E-W |
| 74-N, O, P 64M | 257 | April 1, 1975 | 1:250,000 | 1:250,000 | 5 km | 25, E-W |
| 64-L-12, 13 (West Halves) HATCHET LAKE | 258 | March, 1975 | 1:50,000 | 1:50,000 | 0.8 km | 73, E-W |
| 74-P-1, 2, 3-E½ BLACK LAKE | 259 | March, 1975 | 1:50,000 | 1:50,000 | 0.8 km | 99, N-S |
| 64-E REINDEER LAKE NORTH | 309 | April 29, 1976 | 1:250,000 | 1:250,000 | 5 km | lines 24-46 (23), E-W |
| 64-L WOLLASTON L. | 310 | April 29, 1976 | 1:250,000 | 1:250,000 | 5 km | lines 2-25 (24), N-S |
| 74-A FOSTER L. | 311 | April 29, 1976 | 1:250,000 | 1:250,000 | 5 km | lines 2-23 (22), E-W |
| 74-G CREE L. | 312 | April 29, 1976 | 1:250,000 | 1:250,000 | 5 km | lines 24-46 (23), E-W |
| 74-H GEIKIE R. | 313 | April 29, 1976 | 1:250,000 | 1:250,000 | 5 km | lines 24-45 (22), E-W |
| 74-F LLOYD L. | 314 | April 29, 1976 | 1:250,000 | 1:250,000 | 5 km | lines 25-47 (23), E-W |
| 64-M-1 HARA L. | 455 | June 29, 1977 | 1:50,000 | 1:50,000 | 1 km | lines 2-31 (30), N-S |
| 73-O ILE-A-LA-CROSSE | 36573G | July 27, 1977 | 1:250,000 | 1:250,000 | 5 km | lines 3010-3220 (22), E-W |
| 73-P-W½ LA RONGE | 36673G | July 27, 1977 | 1:250,000 | 1:250,000 | 5 km | lines 3010-3220 (22), E-W |
| 74-B MUDJATIK | 35274G | July 27, 1977 | 1:250,000 | 1:250,000 | 5 km | lines 3230-3400 (23), E-W |
| 74-C LA LOCHE | 35374G | July 27, 1977 | 1:250,000 | 1:250,000 | 5 km | lines 3230-3450 (23), E-W |

## EXPLORATION DATA MAPS

Scale: 1:15,840 (one inch to one-quarter mile)
Price: $2.00 each
Compiled by M.J. Ziegler
(See Figure 11 for areas mapped)

A series of twelve adjoining map sheets containing information on uranium exploration has been compiled for the Uranium City-Beaverlodge Lake mining area of the Athabasca Mining District of Saskatchewan.

The data shown on these maps was obtained from the assessment records in the files of the Mines Branch of the Department of Mineral Resources and covers exploration work carried out between 1930 and 1977. These maps will be revised periodically and are available only as blueline prints.

The following information is shown on these maps: uranium showings assaying 0.05% or more $U_3O_8$; features of mine development such as adits and shafts; diamond drill holes; airborne and ground geophysical anomalies, including radiometric anomalies; the more important fault and fracture zones; the trace of the Tazin Group/Martin Formation and Tazin Group/Athabasca Formation unconformities.

The National Topographic System areas covered by these twelve map sheets are as follows:

1. The west half of 74-N-9-S.W.
2. The east half of 74-N-10-S.E.
3. The west half of 74-N-10-S.E.
4. The east half of 74-N-10-S.W.
5. The west half of 74-N-10-S.W.
6. The northwest quarter of 74-N-8-N.W.
7. The east half of 74-N-7-N.E.
8. The west half of 74-N-7-N.E.
9. The east half of 74-N-7-N.W.
10. The west half of 74-N-7-N.W.
11. The east half of 74-N-7-S.W.
12. The west half of 74-N-7-S.W.

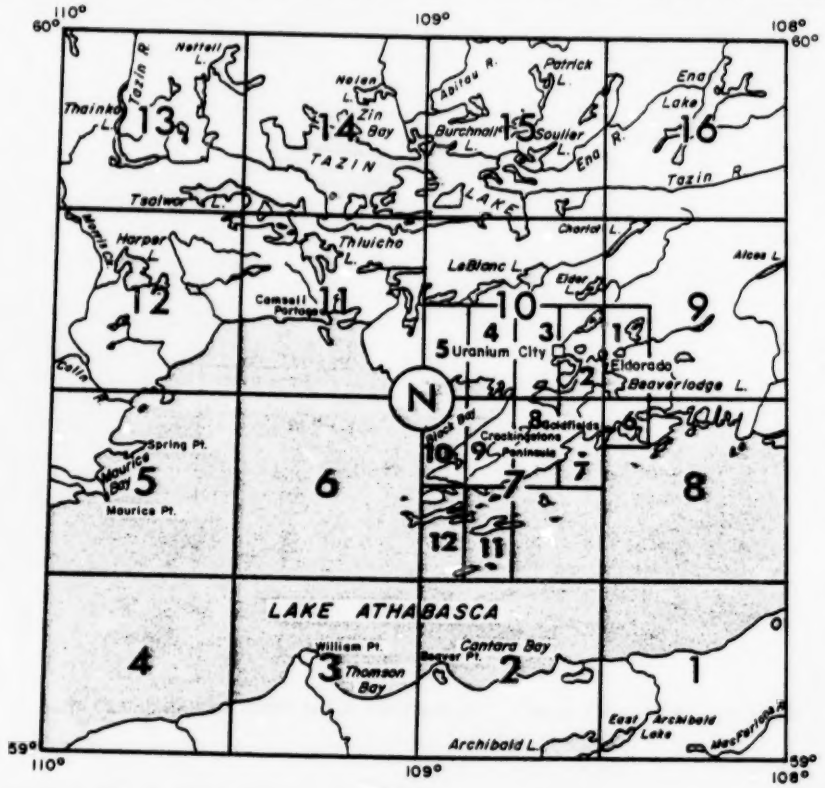



**Figure 11 — AREAS COVERED BY EXPLORATION DATA MAPS**

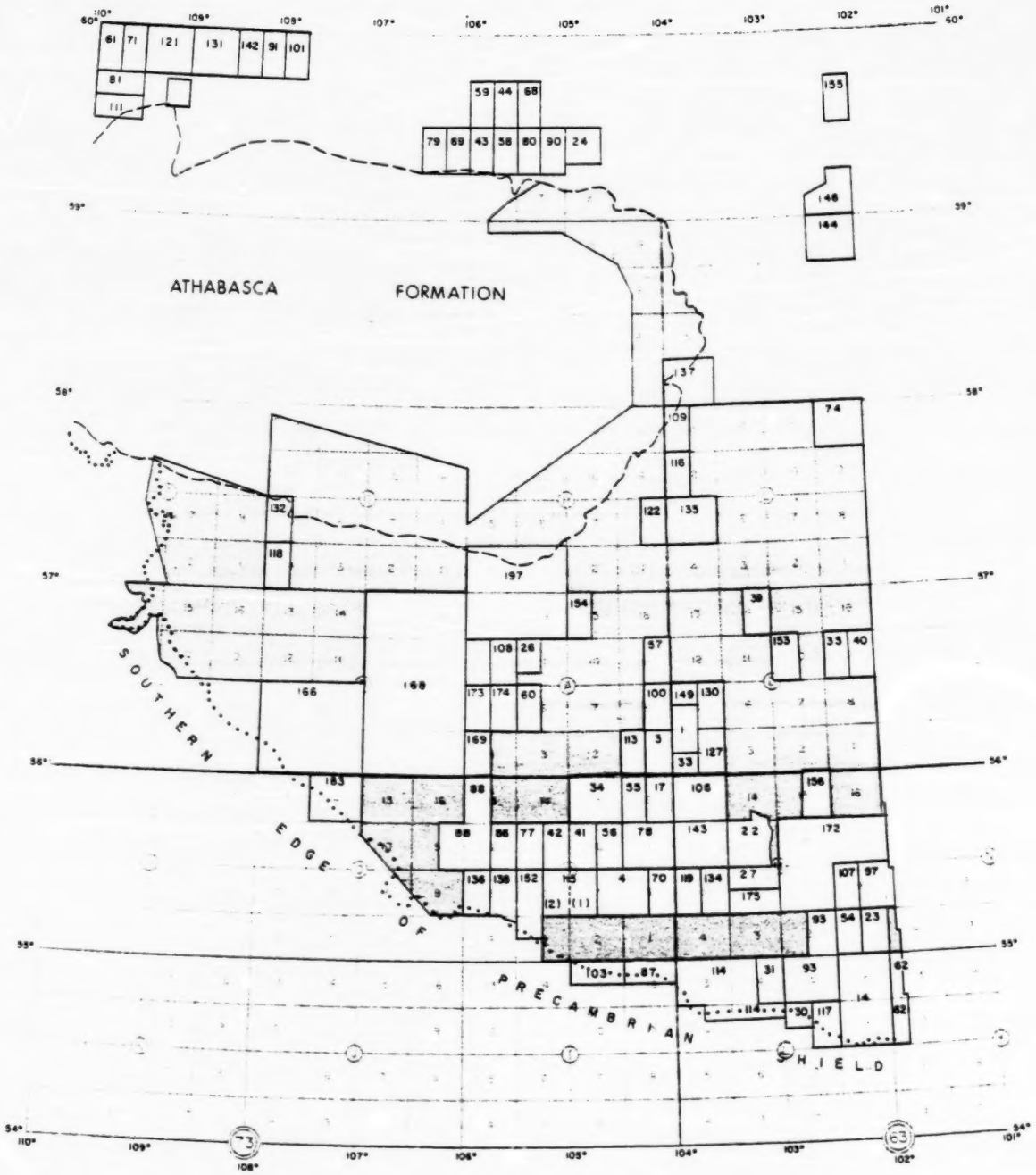



**Figure 12 — INDEX MAP OF BEDROCK GEOLOGICAL MAPPING IN THE PRECAMBRIAN SHIELD AREA**

Published reports are indicated by number in open areas. Shaded areas represent reports in press or in preparation which are reported on in the interim annual Summaries (see page 23).

## GEOLOGICAL AND GEOPHYSICAL REPORTS

### DEPARTMENT OF MINERAL RESOURCES

Price: $3.00 each unless otherwise indicated

(See Figure 12)

**DMR. 152** THE GEOLOGY OF THE NEMEIBEN LAKE AREA (West Half) AND THE LA RONGE AREA (West Half), SASKATCHEWAN, by L.H. Forsythe, 1976 ..... $7.00
Area of report: 73-P-3-W. & 73-P-6-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, metavolcanics, mylonite, granitic gneiss. Amphibolite facies. Pyrite, chalcopyrite, pyrrhotite, nickel, magnetite. Elizabeth Lake prospect, Anglo-Rouyn Mine. Economic geology.

**DMR. 153** THE GEOLOGY OF THE MILTON ISLAND AREA (West Half), SASKATCHEWAN, by T.I.I. Sibbald, 1977 ..... $5.00
Area of report: 64-D-10-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, metavolcanics, ultramafic intrusives. Amphibolite facies. Pyrite, pyrrhotite, asbestos. Economic geology.

**DMR. 165** COMPUTER PLOTTED ISOPACH AND STRUCTURE MAPS OF THE LOWER PALAEOZOIC FORMATIONS IN SASKATCHEWAN, by D.F. Paterson, 1975 ..... $7.00
Map scale: 1:1,013,760
Precambrian. Deadwood, Winnipeg, Red River, Stony Mountain, Stonewall Formations. Interlake Beds. Interlake Group.

**DMR. 166** THE GEOLOGY OF THE MUDJATIK AREA (Southwest Quarter), SASKATCHEWAN, by D.E. Pearson, 1977 ..... $5.00
Area of report: 74-B-S.W.
Map scale: 1:100,000. Coloured.
Precambrian. Metasediments, gneiss. Granulite facies. Pyrite, pyrrhotite, magnetite, graphite, galena, uranium. Economic geology.

**DMR. 168** THE GEOLOGY OF THE MUDJATIK AREA, (East Half), by R.J.C. Munday, 1977 .... $5.00
Area of report: 74-B-E.
Map scale: 1:100,000. Coloured.
Precambrian. Areal mapping. Mudjatik Domain. Gneiss domes.

**DMR. 169** THE GEOLOGY OF THE HEWETSON LAKE AREA (West Half), SASKATCHEWAN, by T.M. Fuh, 1976
Area of report: 74-A-4-W.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, granite gneiss, intrusives. Greenschist, amphibolite facies. Pyrite, pyrrhotite, sphalerite, galena. Economic geology. Computer-based data processing technique.

**DMR. 172** THE GEOLOGY OF THE MARCHEL-WINTEGO-SANDY BAY AREA, SASKATCHEWAN, by S.J.T. Kirkland, 1976 ..... $5.00
Area of report: 63-M-7, 63-M-9, 63-M-10
Map scale: 1:100,000. Coloured.
Precambrian. Pelite, psammite; granitic, mafic gneisses. Kisseynew Gneiss. Nokomis Group, Sherridon Group. Pyrite, pyrrhotite, chalcopyrite, uranium, thorium. Economic geology.

**DMR. 173** THE GEOLOGY OF THE PYLYPOW LAKE AREA (West Half), SASKATCHEWAN, by L.H. Forsythe, 1977 ..... $5.00
Area of report: 74-A-5-W.
Map scale: 1:63,360. Coloured.
Precambrian. Areal mapping. Wollaston Fold Belt. Daly Lake, Sandfly Lake, La Ronge Groups. Pederson Lake Complex. Archean. Aphebian. Uraninite. Copper. Lead. Zinc.

**DMR. 174** THE GEOLOGY OF THE PYLYPOW LAKE AREA (East Half), SASKATCHEWAN, by T.M. Fuh, 1976
Area of report: 74-A-5-E.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, granite, gneiss, intrusives. Greenschist, amphibolite, granulite facies. Pyrite, chalcopyrite, sphalerite. Economic potential.

**DMR. 175** THE GEOLOGY OF THE MANAWAN LAKE AREA (South Half), SASKATCHEWAN, by S.J.T. Kirkland, 1976
Area of report: 63-M-6-S.
Map scale: 1:63,360. Coloured.
Precambrian. Metasediments, metavolcanics, intrusives. Kisseynew Gneiss. Wood Lake Batholith. Tabbernor Lake Fault. Copper, nickel, gold, pyrite, pyrrhotite, uranium. Economic geology.

**DMR. 179** THE UPPER DEVONIAN DUPEROW FORMATION OF SOUTHEASTERN SASKATCHEWAN, by Colin Dunn, 1975 ..... $5.00
Map scale: 1:1,013,760
Carbonates, evaporites. Flat Lake Evaporite. Williston Basin. Isopachs, structure contours, cross sections. Groundwater chemistry. Hydrocarbon potential.

**DMR. 180** THE ORDOVICIAN CARBONATE SUCCESSION (BIGHORN GROUP) SOUTHEASTERN SASKATCHEWAN, by A.C. Kendall, 1976 ..... $5.00
Yeoman, Herald, Stony Mountain, Stonewall Formations. Williston Basin. Cross sections. Anhydritization, dolomitization. Hydrocarbon potential.

**DMR. 183** THE GEOLOGY OF THE DIPPER LAKE AREA, SASKATCHEWAN, by B.P. Scott, 1977.
Area of report: 73-0-14
Map scale: 1:63,360. Coloured.
Precambrian. Areal mapping. Daly Lake Group. Dipper Lake Complex. Archean. Aphebian. Molybdenite.

**DMR. 197** THE GEOLOGY OF THE HIGHROCK LAKE-KEY LAKE VICINITY, SASKATCHEWAN, by Gerald E. Ray, 1977 ..... $5.00
Area of report: 74-A-13, -14; 74-H-3, -4
Map scale: 1:100,000. Coloured.
Precambrian. Areal mapping. Archean basement. Wollaston Group. Athabasca Formation. Uranium-nickel-arsenic deposit. Geochemistry. Exploration targets.

## GEOLOGICAL MAP SEPARATES

The following list of coloured maps are included in the reports of the department, and are available separately from the reports. These maps are available either folded or flat—please specify if you would like the maps flat, otherwise they will be mailed folded.

Price: $2.00 each

| Map Title | Map Type | N.T.S. Area | Map No. | Included in D.M.R. Report No. | Date |
|---|---|---|---|---|---|
| DESCHAMBAULT LAKE | Geology | 63-L-14-E. | 31A | 31 | 1958 |
| WAPUS BAY | Geology | 64-D-9-W. | 35A | 35 | 1959 |
| OLIVER LAKE | Geology | 64-D-14-E. | 39A | 39 | 1961 |
| SETTEE LAKE | Geology | 73-P-16-W. | 55A | 55 | 1960 |
| BARNETT LAKE | Geology | 74-A-6-W. | 60A | 60 | 1961 |
| THAINKA LAKE | Geology | 74-N-13-W. | 61A | 61 | 1961 |
| FLIN FLON | Geology | 63-K-13-N.W. | 62A | 62 | 1965 |
| FLIN FLON | Geology | 63-K-13-S.W. | 62B | 62 | 1965 |
| SCHIST LAKE | Geology | 63-K-12-N.W. | 62C | 62 | 1965 |
| CHAMBEUIL LAKE | Geology | 74-P-11-W. | 68A | 68 | 1962 |
| NISTOWIAK LAKE | Geology | 73-P-8-E. | 70A | 70 | 1962 |
| GUNCOAT BAY | Geology | 73-P-9 | 78A | 78 | 1965 |
| GUNCOAT BAY | Geological Cross Sections | 73-P-9 | 78B | 78 | 1965 |
| WILEY LAKE | Geology | 74-0-8-W. | 79A | 79 | 1964 |
| LYTLE LAKE | Geology | 74-P-6-W. | 80A | 80 | 1964 |
| WAPAWEKKA NARROWS | Geology | 73-I-16-N. | 87A | 87 | 1964 |
| EULAS LAKE | Geology | 73-P-13-W. | 88A | 88 | 1964 |
| BIRCH PORTAGE | Beryl Pegmatite Deposit | 63-L-15-N.E. (Part) | 93C | 93 | 1964 |
| NEKWEAGA BAY | Geology | 64-E-13-W. | 109A | 109 | 1967 |
| OSKIKEBUK LAKE & BALLENTYNE BAY | Geology | 63-L-13 & 63-L-12-N.E. (Part) | 114A | 114 | 1968 |

| | | | | | |
|---|---|---|---|---|---|
| VINEY LAKE and LIMESTONE LAKE | Geology | 63-L-14-W. & 63-L-11-N. (Part) | 114B | 114 | 1968 |
| MAYNARD LAKE ANTICLINE | Geology | 63-L-13-N.W. (Part) & 63-M-4-S.W. (Part) | 114C | 114 | 1968 |
| STANLEY | Geology | 73-P-7-W. | 115A-1 | 115 (Part I) | 1969 |
| SULPHIDE LAKE | Geology | 73-P-7-W. (Part) | 115C-1 | 115 (Part I) | 1969 |
| MORELL LAKE | Geology | 64-E-12-W. | 116A | 116 | 1968 |
| HANSON LAKE | Geology | 63-L-10-E. | 117A | 117 | 1967 |
| BECKETT LAKE | Geology | 74-H-8-E. | 122A | 122 | 1969 |
| LOCATION MAP OF URANIUM DEPOSITS | | 74-N-E. (Part) | 126B | 126 | 1969 |
| ATHABASCA REGION | Geology | 74-N, 74-0, 74-P | 126C | 126 | 1969 |
| DUFFERIN LAKE | Geology | 74-G-5-W. | 132A | 132 | 1970 |
| GLENNIE LAKE | Geology | 63-M-12 | 143A | 143 | 1977 |
| MILTON ISLAND | Geology | 64-D-10-W. | 153A | 153 | 1976 |
| MUDJATIK | Geology | 74-B-S.W. | 166A | 166 | 1977 |
| MUDJATIK | Geology | 74-B-S.E. | 168A | 168 | 1977 |
| MUDJATIK | Geology | 74-B-N.E. | 168B | 168 | 1977 |
| HEWETSON LAKE | Geology | 74-A-4-W. | 169A | 169 | 1976 |
| MARCHEL LAKE, WINTEGO LAKE, SANDY BAY | Geology | 63-M-7, 63-M-9, 63-M-10 | 172A | 172 | 1976 |
| PYLYPOW LAKE | Geology | 74-A-5-W. | 173A | 173 | 1977 |
| PYLYPOW LAKE | Geology | 74-A-5-E. | 174A | 174 | 1976 |
| MANAWAN LAKE | Geology | 63-M-6-S. | 175A | 175 | 1976 |
| DIPPER LAKE | Geology | 73-0-14 | 183A | 183 | 1977 |
| HIGHROCK LAKE, KEY LAKE | Geology | 74-A-13, 74-A-14, 74-H-3, 74-H-4 | 197A | 197 | 1977 |

## SUMMARY REPORTS

The Saskatchewan Geological Survey each November produces a summary interim report on the past year's investigations. The maps accompanying these reports are produced directly from the manuscript in monochrome ready for hand colouring, but are withdrawn from issue when the substantive report and map on the area are published.

The SUMMARY OF INVESTIGATIONS, 1976 is available only as a package (text and maps) at $12.00. Separate individual maps are available at $1.00 each.

SUMMARY OF INVESTIGATIONS, 1976, edited by J.E. Christopher and R. Macdonald. Issued with text and 13 accompanying monochrome maps listed below and one coloured index map showing progress of Precambrian Mapping Program at a total cost of $12.00.

1. SEAHORSE LAKE. Radiometric. 74-H-4 (part). By H. Stolz.
2. REINDEER LAKE NORTH (SW). Geology. 64-E-3,4,6. By J.F. Lewry.
3. ROYAL LAKE (E) and STEEPHILL LAKE (E). Geology. 64-D-3-E and 63-M-14-E. By W.G.Q. Johnston.
4. MAYNARD LAKE and SANDY NARROWS (W). Geology. 63-M-3-W and 63-M-4. By B.P. Scott.
5. REINDEER LAKE SOUTH (SE). Geology. 64-D-1,2,7,8. By C.F. Gilboy.
6. ATHABASCA FORMATION, NORTHEAST EDGE. Preliminary Reconnaissance Geology. 64-L, 74-I, 74-P. By Paul Ramaekers.
7. BEDDED HALITES IN THE SOURIS RIVER FORMATION (DEVONIAN): POTASH MINING DISTRICT AROUND SASKATOON. By A.C. Kendall.
8. LIMESTONE—TULABI LAKES (Revision mapping). 63-L-11-E (mainly). By R. Macdonald and G.A. Posehn.
9. CARTIER LAKE. Geology. 73-P-1. By L.H. Forsythe.
10. FOSTER LAKE (NW) and GEIKIE RIVER (SW). Geology. 74-A-13, 14 and 74-H-3,4. By G.E. Ray.
11. PELICAN NARROWS (63-M), REINDEER LAKE SOUTH (64-D), REINDEER LAKE NORTH (64-E), UPPER FOSTER LAKE (74-A), GEIKIE RIVER (74-H), and parts of AMISK LAKE (63-L), ILE-A-LA-CROSSE (73-0), LAC LA RONGE (73-P), MUDJATIK (74-B) and LA LOCHE (74-C). Quaternary geology. By B.T. Schreiner and D.W. Alley.
12. REINDEER LAKE NORTH (SE). Geology. 64-E-1,2,7,8. By M.R. Stauffer, L.C. Coleman, D.J. Mossman, S. Fumerton, K. Ashton, N. MacFarlane and F.F. Langford.
13. STEEPHILL LAKE (W). Geology. 63-M-14-W. By B.P. Scott.
14. PRECAMBRIAN MAPPING INDEX, 1976 edition (in colour).

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1. MIDDLETON LAKE, GEIKIE RIVER AREA. Reconnaissance geology. 74-H (part). By L.H. Forsythe.
2. UPPER CLEARWATER RIVER AREA. Reconnaissance geology. 74-F (part). By B.P. Scott.
3. BALLENTIN ISLAND SEGMENT, REINDEER LAKE. Reconnaissance geology. 64-E-N.E. By M.R. Stauffer and S.L. Fumerton.
4. CREE LAKE (South) AREA. Reconnaissance geology. Sheet 1, 74-G-S.E.
   Sheet 2, 74-G-S.W.
   By C.F. Gilboy and P. Ramaekers.
5. COMPULSION BAY AREA, WOLLASTON LAKE. Reconnaissance geology. 64-E-N.W. (part). By J.F. Lewry.

6. PAGATO RIVER AREA. Geology. 63-M-16. By Tsu-Min Fuh.
7. ROYAL LAKE (West) AREA. Geology. 64-D-3-W. By W.G.Q. Johnston.
8. DALY LAKE (West) and MIDDLE FOSTER LAKE AREAS. Reconnaissance geology. 74-A-12-W. and part of 74-A-11-W. By G.E. Ray.
9. QUATERNARY GEOLOGY OF THE PRECAMBRIAN SHIELD AREA SOUTH OF 58°. By B.T. Schreiner.
10. LA RONGE - WOLLASTON BELTS BASE METALS PROJECT: SITO LAKE AREA. Geology. 74-A-4,-5 (parts). By D. Potter.
11. URANIUM METALLOGENIC STUDIES III: CLUFF LAKE. Geology. 74-K-5,-6,-11,-12 (parts). By C.T. Harper.
12. ATHABASCA FORMATION, SOUTH-CENTRAL EDGE. Reconnaissance geology. 74-G-9,-10,-11,-12 (parts). By P. Ramaekers.
13. PASQUIA HILLS, EAST CENTRAL SASKATCHEWAN. Geochemical study of waters and sediments. 63-D,-E (parts). By C.E. Dunn.
14. PRECAMBRIAN MAPPING INDEX. 1977 edition (in colour).

## MISCELLANEOUS PUBLICATIONS

DMR. Misc. Rep. No. 78-1 ECONOMIC, SOCIAL AND PLANNING REQUIREMENTS FOR NORTHERN COMMUNITIES, by H.D. Linn and J.C. Stabler, 1978 ..... $12.00

SOUTHEND - PRELIMINARY GEOCHEMISTRY (SOILS), by W.G.Q. Johnston, 1971 ..... $3.00
Map with marginal notes, available only as blueline prints.
Map area: 64-D-6-W.
Map scale: 1:31,680 (1" = ½ mile).
Copper, zinc and nickel in soils.

SOUTHEND - PRELIMINARY GEOCHEMISTRY (SOILS), by W.G.Q. Johnston, 1973 ..... $3.00
Map with marginal notes, available only as blueline prints.
Map area: 64-D-6-E.
Map scale: 1:31,680 (1" = ½ mile).
Copper, zinc, and nickel in soils.

POTENTIAL PEAT AREAS OF SASKATCHEWAN SOUTH OF THE PRECAMBRIAN SHIELD. By R. Troyer, 1978 ..... $2.00
Scale: 1:1,267,200 (1" = 20 miles).
Blueline print.
Areas of peat accumulation identified by means of air photo interpretation.

## TECHNICAL REPRINTS

(No charge)

Beck, L.S. SASKATCHEWAN: 1972 REVIEW. Presented at the Prospectors' and Developers' Convention, Toronto, March, 1973.

Beck, L.S. SASKATCHEWAN EXPLORATION AND DEVELOPMENT: PROJECTIONS FOR THE SEVENTIES. Presented at the Prospectors' and Developers' Convention, Toronto, March, 1971.

Beck, L.S. and Gingrich, J.E. TRACK ETCH ORIENTATION SURVEY IN THE CLUFF LAKE AREA, NORTHERN SASKATCHEWAN. Published in The Canadian Mining and Metallurgical Bulletin, May, 1976.

Beck, L.S. and Pearson, W.J. SASKATCHEWAN MINERAL EVALUATION AND PROSPECTING PROGRAMS. Presented at the Prospectors' and Developers' Convention, Toronto, March, 1974.

Broughton, Paul L. SILICIFIED LIGNITE FROM THE TERTIARY OF SOUTH CENTRAL SASKATCHEWAN. Published in the Canadian Journal of Earth Sciences, Vol. 13, No. 12, 1976.

Cheesman, R.L. THE FUTURE OF MINERAL EXPLORATION IN SASKATCHEWAN. Presented at the Prospectors' and Developers' Convention, Toronto, March, 1968.

Christopher, J.E. THE DEPOSITIONAL SETTING OF THE MANNVILLE GROUP (LOWER CRETACEOUS) IN SOUTHWESTERN SASKATCHEWAN. Published in the Geological Association of Canada Special Paper Number 13, 1975.

Cumming, G.L. and Scott, B.P. Rb/Sr DATING OF ROCKS FROM THE WOLLASTON LAKE BELT, SASKATCHEWAN. Published in the Canadian Journal of Earth Sciences, Vol. 13, No. 2, 1976.

Dunn, Colin. SASKATCHEWAN POTASH IN 1975—AN UPDATE ON OUR KNOWLEDGE. Published in the Proceedings Volume of the Eleventh Forum on the Geology of Industrial Minerals, Kalispell, Mont., June, 1975.

Gracie, A.J. MINERAL DEVELOPMENTS AND POTENTIAL OF SASKATCHEWAN METAVOLCANIC BELTS. Presented at the Prospectors' and Developers' Convention, Toronto, March, 1972.

Guliov, Paul. TWO NEW MIDDLE ALBIAN SPECIES OF FORMAMINIFERA FROM SASKATCHEWAN. Published in Contributions From The Cushman Foundation For Foraminiferal Research, Vol. XVII, Part 4, October, 1966.

Kendall, A.C. POST-COMPACTIONAL CALCITIZATION OF MOLLUSCAN ARAGONITE IN A JURASSIC LIMESTONE FROM SASKATCHEWAN, CANADA. Published in the Journal of Sedimentary Petrology, Vol. 45, No. 2, June, 1975.

Kendall, A.C. ANHYDRITE REPLACEMENTS OF GYPSUM (SATIN-SPAR) VEINS IN THE MISSISSIPPIAN CAPROCKS OF SOUTHEASTERN SASKATCHEWAN. Published in the Canadian Journal of Earth Sciences. Vol. 12, No. 7, 1975.

Kendall, A.C. ORIGIN OF DOLOMITE MOTTLING IN ORDOVICIAN LIMESTONES FROM SASKATCHEWAN AND MANITOBA. Published in the Bulletin of Canadian Petroleum Geology, Vol. 25, No. 3, June, 1977.

Kendall, A.C. PATTERNED CARBONATE - A DIAGENETIC FEATURE, BY JAMES DIXON. Published in the Bulletin of Canadian Petroleum Geology, Vol. 25, No. 3, June, 1977.

Kendall, A.C. and Walters, K.L. THE AGE OF METASOMATIC ANHYDRITE IN MISSISSIPPIAN RESERVOIR CARBONATES, SOUTHEASTERN SASKATCHEWAN. Published in the Canadian Journal of Earth Sciences, Vol. 15, No. 3, March, 1978.

Pearson, D.E. THE LOCATION AND STRUCTURE OF THE PRECAMBRIAN KISSEYNEW GNEISS DOMAIN OF NORTHERN SASKATCHEWAN. Published in the Canadian Journal of Earth Sciences, Vol. 9, No. 10, October, 1972.

Simpson, Frank. MARINE LITHOFACIES AND BIOFACIES OF THE COLORADO GROUP (MIDDLE ALBIAN TO SANTONIAN) IN SASKATCHEWAN. Published in the Geological Association of Canada Special Paper Number 13, 1975.

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**SRC. 15** GEOCHEMISTRY OF BEDROCK, OVERBURDEN, LAKE AND STREAM SEDIMENTS IN THE STANLEY AREA (West Half) SASKATCHEWAN, by D.R. Haughton, 1975.
Area of report: 73-P-7-W.
Map scale: 1:63,360. Coloured.
Uranium, molybdenum, lead, nickel, zinc and copper concentrations in lake sediments and $B_1$ soil horizon. Surficial geology.

**SRC. 16** A MULTIPLE MEDIA GEOCHEMICAL SURVEY OF A BOULDER TRAIN ASSOCIATED WITH THE GEORGE LAKE LEAD-ZINC DEPOSIT, SASKATCHEWAN, by D.R. Haughton, 1976.
Area of report: 64-E-5 (part).
Map scales: 1:60, 1:9,600 & 1:10,800.
17 graphs, 28 maps, 12 tables.
Copper, zinc, nickel, lead, uranium, cobalt, iron, manganese. Geology, geochemistry, physiography.

**SRC. 17** A MULTIPLE MEDIA GEOCHEMICAL SURVEY OF A BOULDER TRAIN ASSOCIATED WITH THE DUDDRIDGE LAKE URANIUM DEPOSIT, SASKATCHEWAN, by D.R. Haughton, 1976.
Area of report: 73-0-9 (part).
Map scales: 1:6,000; 1:13,300, 1:60,000.
41 graphs, 17 fold-out maps, 9 tables.
Copper, zinc, nickel, lead, uranium, cobalt, iron, manganese. Geology, geochemistry, physiography.

**SRC. 18** BIBLIOGRAPHY AND INDEX OF COAL IN SASKATCHEWAN AND ADJOINING PROVINCES AND STATES, by C.A. Pilon 1977. ..... $15.00
Bibliography, author, title, descriptor, subject publisher, sponsor indices.
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**Circular No. 8** RAPID PYROCLASTIC MAPPING IN BASE METAL EXPLORATION, by J.S. Fox, 1976.
Area of study: Amisk Lake, Flin Flon, Snow Lake; 64-K,-L,-M,-N (parts).
5 figures
Photo-enlargement digital analysis, strain parameters, genesis.

**Circular No. 9** SOME COMMENTS ON THE VOLCANIC STRATIGRAPHY AND ECONOMIC POTENTIAL OF THE WEST AMISK LAKE AREA, SASKATCHEWAN, by J.S. Fox, 1976
Area of study: Hanson Lake, Amisk Lake, Flin Flon, Snow Lake: 63-K,-L,-M,-N (parts).
Volcanogenics, trace and major elements, economics.

**Circular No. 10** SILICA NORMALIZATION OF DRILL-HOLE GEOCHEMICAL DATA FROM THE VOLCANIC ROCKS OF THE HANSON LAKE MINE, SASKATCHEWAN, by J.S. Fox, 1977
Area of study: Hanson Lake; 63-L (part).
Geochemistry, discriminant analysis, trace metals.

**Circular No. 11** SUMMARY OF MERCURY CONCENTRATIONS IN ROCK AND LAKE SEDIMENTS COLLECTED BY SRC IN PRECAMBRIAN AREAS OF SASKATCHEWAN, by R.G. Arnold and J.W.J. Smith, 1977.
Area of study: Porter Lake 74-B-(SW), Lac La Ronge 73-P (part).
Muskeg, overburden, lake sediment and outcrop sample analyses.

**SASKATCHEWAN RESEARCH COUNCIL MAPS**
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PRELIMINARY LITHO-GEOCHEMISTRY (LEAD) OF THE WEST AMISK AREA, by J.S. Fox, 1977.
Map area: 63-L-9-W. and 63-L-16-S.W.
Map scale: 1:30,000.

PRELIMINARY LITHO-GEOCHEMISTRY (ZINC) OF THE WEST AMISK AREA, by J.S. Fox, 1977.
Map area: 63-L-9-W. and 63-L-16-S.W.
Map scale: 1:30,000.

PRELIMINARY BEDROCK GEOLOGY OF THE WEST AMISK AREA, by J.S. Fox, 1976.
Map area: 63-L-9-W. and 63-L-16-S.W.
Map scale: 1:30,000.

## AUTHOR INDEX

This alphabetical index of authors refers to material listed in both the CATALOGUE OF MAPS AND PUBLICATIONS, 1975 and this 1978 SUPPLEMENT to the aforementioned catalogue where the items are identifiable by author. The figures shown are page numbers on which the author has published material listed. Lightface numbers indicate that the material is listed in the 1975 CATALOGUE; boldface numbers indicate that the material is listed in the 1978 SUPPLEMENT; a page number followed by a number in brackets indicates the number of times the authors' material appears on that page.


Agarwal, R.G. ... 68,69,70,71,72(2).
Alley, D.W. ... 80,**27**
Arnold, R.G. ... 86,87,**31.**
Ashton, K. ... **27**
Babey, W.J. ... 82(3).
Beck, L.S. ... 67,73,75,78,80,81(4),84,**28(2),29(2).**
Braun, W.K. ... 78.
Brindle, J.E. ... 67,68,84.
Brooke, M.M. ... 78.
Broughton, P.L. ... **29.**
Brunskill, L. ... 71.
Budding, A.J. ... 65(2).
Buller, J.V. ... 78,84
Burke, K. ... 83.
Byers, A.R. ... 64,65,66(2),69.
Caldwell, W.G.E. ... 85(3).
Carlson, E.Y. ... 82(5).
Chadwick, B. ... 73,74.
Chakrabarti, A.K. ... 74,76.
Cheesman, R.L. ... 65,67,**29.**
Cherry, J.A. ... 88.
Christiansen, E.A. ... 65,66,80,85(4),87(2),88(6),89(4).
Chrnstopher, J.E. ... 69,72,73,77,78,80,84,90(3),**27(2),29.**
Colborne, G.L. ... 67,68,69,70.
Coleman, L.C. ... 80,85,90,**27.**
Crawford, G.S. ... 65,82.
Cumming, G.L. ...
Dahlstrom, C.D.A. ... 65.
David, P.P. ... 89.
Dennison, E.G. ... 79,84.
Dunn, C.E. ... 79,84,**24,28,29.**
Edmunds, F.H. ... 69.
Forsythe, L.H. ... 74,76(2),77,79,80(2),81,90(2),**23,24,27(2).**
Fox, J.S. ... **32(6).**
Francis, D.R. ... 65(2).
Freitag, L. ... 71.
Froese, E. ... 66,90.
Fuh, T.-M. ... 78,80,84(2),**23,24,28.**
Fuller, J.G.C.M. ... 65.
Fumerton, S.L. ... **27(2).**
Fuzesy, L.M. ... 37,68,72,78,84.
Fuzesy, M.A. ... 62.
Fyson, W.K. ... 69.
Geskarth, J.W. ... 85.
Gendzwill, D. ... 83.
George, J.D. ... 61.
Gilboy, C.F. ... 80,**27(2).**
Gillard, D.R. ... 84.
Gingrich, J.E. ... **29.**
Gracie, A.J. ... 72,73,90,**29.**
Greer, J.E. ... 85.
Grout, F.F. ... 64
Guliov, P. ... 73,84,90,**29.**
Hagen, J.E. ... 67.
Harper, C.T. ... **28.**
Haughton, D.R. ... 86(4),**30(3).**
Holter, M.E. ... 75.
Hriskevich, M.E. ... 64
Hutcheon, I.E. ... 90
Hutt, R.B. ... 40(4)
Jackman, C.H. ... 57,58.
Jaworski, E.J. ... 87.
Johnson, R.L. ... 73,74(2)
Johnston, F.J. ... 67,69(2),70,71
Johnston, W.G.Q. ... 73,75(2),77(3),80,81(3),**27,28(3).**
Jones, H.L. ... 69,72
Kamen-Kaye, M. ... 65
Kanasewich, E.R. ... 75.
Karvonen, D. ... 84.
Kays, M.A. ... 77.
Kendall, A.C. ... 79,84,**24,27,29(5).**
Kent, D.M. ... 67,70,72,76,78,84(2),90(7).
Kents, P. ... 67.
Kirkland, S.J.T. ... 65,66(3),69,**23,24.**
Knudsen, R.H. ... 83.
Koncohrada, R. ... 71
Koster, F. ... 69,70,71(2),72,73,74,75.
Kupsch, W.O. ... 64(3),65,83,90.
Lane, D.M. ... 67,71
Langford, F.F. ... 77,**27.**
Ledebur, K.H. von ... 37(9),38(2),39(10),**10.**
Lee, H. ... 70,83
Lewry, J.F. ... 77,80(2),81(2),84,**(iv),27(2).**
Linn, H.D. ... **28.**
Macdonald, R. ... 80(4),**27(3).**
MacFarlane, N. ... **27.**
MacLennan, D.B. ... 65.
Magas, I.O. ... 68.
Mawdsley, J.B. ... 64(2),65,66,68.
Maycock, I.D. ... 72.
McCabe, H.R. ... 90.
McLean, D.D. ... 68.
McLean, J.R. ... 86.
Meneley, W.A. ... 87(3),88(2).
Miller, M.L. ... 64.
Money, P.L. ... 69,71,73.
Moran, S.R. ... 88.
Morris, A. ... 67,68,70(2),71.
Moseman, D.J. ... 80,**27.**
Munday, R.J.C. ... 41,78,80,81(2),**23.**
Nichols, R.A.H. ... 75,84.
North, B.R. ... 85(2).
Osinski, W.P.C. von ... 14(3),37,38,39,**10.**
Padgham, W.A. ... 67,68,70,71,72,74.
Parizek, R.R. ... 85,87.
Paterson, D.F. ... 41,42(2),74,76,78(2),90(2),**23.**
Pearson, D.E. ... 78(2),84,**23,29.**
Pearson, W.J. ... 68(2),69,83(3),**29.**
Pilon, C.A. ... **30.**
Posehn, G.A. ... **27.**

Potter, D. **28.**
Price, D.P. 90
Pyke, M.W. 67,68,72(2).
Ramaekers, P. 80,**27(2).**
Ray, G.E. 80(2),**24,27,28.**
Rosenberger, E. 70
Ross, W.C. 87
Russell, L.S. 64.
Sacuta, A. 82.
Sangster, D.F. 90.
Sauer, E.K. 90.
Sawatzky, H.B. 68,70,83.
Schmid, A.P. 37(2),38(3),**10.**
Schreiner, B.T. **80,27,28.**
Schuster, W.J. 61-
Scott, S.P. 75,76,77,78(2),80(2),81(2),**24,27(2).**
Shklanka, R. 67,68,70.
Sibbald, T.I.I. 78,80,81,**23.**
Simpson, F. 78,79,84(3),90(5),**29.**
Smith, J.R. 85(2)
Smith, J.W.J. 86(2),**31.**
Spyker, J.W. 82(3)
Stabler, J.C. **28.**
Stauffer, M.R. 80,84,90,**27(2).**
Stolz, H. **27.**
Surjik, D. 70
Suryam, J.V. 84.
Tomkins, R.V. 64(2),82(2).
Troyer, R. **28.**
Tweedie, A.J. 83
Vigrass, L.W. 90.
Vonhof, J.A. 90.
Walker, C.T. 66.
Wall, J.H. 68.
Wallis, R.H. 76(2).
Walters, K.L. **29.**
Whitaker, S.H. 87,88(4),89(5),90,**(iv).**
White, W.I. 37,38(5),39,76,84(2),**10.**
Williams, L.L. **10(2).**
Wilson, W. 68,70.
Winer, A.A. 82.
Worcester, W.G. 64
Wyman, J.M. 84
Ziegler, M.J. **21.**
Zoysa, T.H. de 77,90.

Saskatchewan
Mineral Resources

# Supplement to the Catalogue of Maps and Publications

May, 1978 to September, 1980

## Foreword

This 1980 Supplement to the Catalogue of Maps and Publications lists only those items that have become available in the period of May 24, 1978 to September 30, 1980.

New publications will be announced by quarterly notices. If you wish to receive these notices and your name does not already appear on our mailing list, please contact the Publications Office of the department in this regard.

Maps will be sent folded unless otherwise requested. An additional charge of $1.00 will be made for each shipment containing unfolded maps.

Please address all communications pertaining to this catalogue to:

Publications Office
Department of Mineral Resources
1914 Hamilton Street
Regina, Saskatchewan
S4P 4V4
Phone: (306) 565-2528.

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## Office of Energy Conservation

The Office of Energy Conservation, Department of Mineral Resources, 1914 Hamilton Street, Regina, Saskatchewan, S4P 4V4, phone 565-3031, serves as an information center/focal point for energy conservation activities within the province.

OEC initiates, co-ordinates and administers a number of programs aimed at making the public aware of the energy issue and the importance of energy conservation. OEC also distributes free information concerning a variety of aspects of energy conservation. Inquiries should be directed to the preceeding address.

## Addenda, Deletions and Amendments

On page 13 of the 1975 Catalogue under **"Schedule of Wells"** delete the words: "these supplements will be incorporated into the historical series at five year intervals". Due to delaying factors created by conversion from traditional to metric (SI) units this scheduled incorporation is temporarily delayed.

On page 13 of the 1975 Cataglogue delete the following two items: **"Monthly Potash Report"** and **"Saskatchewan Mineral Spotlight"**. These have both been discontinued.

On page 14 of the 1975 Catalogue delete: **"Geology and Production History of the Rosebank Area"** - out of print.

On page 42 of the 1975 Catalogue delete: **"Block Diagram of Saskatchewan Geology"** - out of print.

Page 46 of the 1975 Catalogue - delete the entire page. These maps have been superseded by later editions - see pages 47, 48 and 52 of the 1975 Catalogue and page (i) of the 1978 Supplement.

On page 72 of the 1975 Catalogue delete: **Report 102** - out of print.

On page 83 of the 1975 Catalogue delete the following five items:

**"Economic Minerals of Saskatchewan"** - out of print - superseded by **Miscellaneous Report 79-11.**

**"Helium - The Space Age Gas"** - out of print.

**"Potash in Saskatchewan, 1974"** - out of print - revision (Miscellaneous Report 80-6) in preparation - expected to be available autumn of 1980.

**"Towards a Mineral Policy for Canada, 1974"** - out of print.

**"World Potash Productive Capacity and Consumption"** - out of print.

On pages 85 and 86 of the 1975 Catalogue delete **Reports** 1, 3 and 13 - these are out of print.

On page 31 of the 1978 Supplement delete **Circulars** 9 and 11 - these are out of print.

On page 14 of the 1975 Catalogue change price of **"Saskatchewan Oil and Gas Units"** from $30.00 to $40.00.

## Reports

9 $5.00
**Annotated Bibliography of Saskatchewan Geology 1970 - 1976.** (Supplement 1979). By W.O. Kupsch. 140 pages, 12 figures. This is supplement identical in format to the principal report of the same number, title and author covering the 1823-1970 period and which is listed on page 64 of the 1975 Catalogue.

139 $5.00
**Well Data and Lithologic Descriptions of the Interlake Group (Silurian) in Southern Saskatchewan.** By Esther R. Jamieson, 1979. 67 pages, 2 tables, 2 figures.

143 $5.00
**The Geology of the Glennie Lake Area, Saskatchewan.** By J.F. Lewry, 1977. 63-M-12. 59 pages, 1 table, 2 figures, 55 plates. Geological Map 143A, 1:63,360 plus two transparent overlays: 143B Geomorphology, and 143C Structural Geology, in pocket.

160 $5.00
**Lithologic Descriptions of Selected Cored Sections from the Lower Colorado Group (Cretaceous) of West-Central Saskatchewan.** By Frank Simpson,1979. 121 pages, 1 table, 2 figures.

167 $7.00
**The Geology of an area East of Thluicho Lake.** By Blaine P. Scott, 1978. 74-N-11 (part). 51 pages, 6 appendices, 18 figures, 11 plates. Geological Map 167A, 1:31,680; 2 geological maps 167B and 167C, 1:2,400; 7 geophysical maps 1:2,400 (copper in rock chips, copper in soil horizons), in pocket.

170 $5.00
**Geology of the Sandy Narrows (East) Area.** By T.I.I. Sibbald, 1978. 63-M-3-E. 49 pages, 7 tables, 9 figures, 26 plates. Geological Map 170A, 1:63,360 plus three transparent geophysical overlays of metal concentration (170B copper, 170C zinc, 170D nickel) in lake and stream sediments, in pocket.

187 $5.00
**Geology of the Gilbert Lake West Area.** By Tsu-Min Fuh, 1979. 63-M-15-W. 17 pages, 8 tables, 2 figures, 5 plates. Geological Map 187A, 1:63,360, in pocket.

189 $7.00
**The Shield Geology of the Ile-a-la-Crosse (East) Area.** By R.J. Munday, 1978. 73-O (East half). 27 pages, 3 tables, 2 figures, 13 plates. Geological Map 189A (sheets 1 & 2), 1:100,000, in pocket.

191 $5.00
**Geology of an area around Amiskit Island, Reindeer Lake.** By M.R. Stauffer, F.F. Langford, L.C. Coleman and D.J. Mossman, 1979. 64-D-10-E., -15, -16. 21 pages, 1 table, 5 figures, 9 plates. Geological Map 191A, 1:100,000, in pocket.

192 $5.00
**Geology of an Area aroung Ghana Lake.** By J.F. Lewry, A. Curry and K. Roberts, 1980. Part of 64-D-N.W. 29 pages, 2 tables, 2 figures. Geological Map 192A, 1:100,000, plus one transparent overlay of the structure, in pocket.

201 $5.00

**The Sedimentary Geology of the La Loche Area, Saskatchewan.** By D.F. Paterson, A.C. Kendall and J.E. Christopher, 1978. 74-C. 38 pages, 2 tables, 13 figures, 15 plates. Geological Map 201A (with two sections on the sheet), 1:250,000, in pocket.

207 $5.00

**Geology of the Pagato River Area.** By Tsu-Min Fuh, 1979. 63-M-16. 16 pages, 3 tables, 10 plates. Geological Map 207A, 1:63,360, in pocket.

209 $50.00

**Coal Resources of Southern Saskatchewan: A Model For Evaluation Methodology.** By S.H. Whitaker, J.A. Irvine and P.L. Broughton, 1978. A joint release by the Saskatchewan Research Council (Report 20), the Geological Survey of Canada (Economic Geology Report 30) and the Saskatchewan Geological Survey. In two parts: **Part I - Text** 151 pages, 39 tables, 108 figures; **Part II - Atlas** (38 x 56 cm) 56 plates.

210 $5.00

**Geology of the Deadwood (Cambrian), Meadow Lake and Winnipegosis (Devonian) Formations in West-Central Saskatchewan.** By L.M. Fuzesy, 1980. 64 pages, 2 appendices, 1 table, 12 figures, 3 plates.

215 $7.00

**Petroleum Geology of the Mississippian Midale Beds, Benson Oil Field, Southeastern Saskatchewan.** By S.R. Smith, 1980. 98 pages, 2 tables, 19 figures (2 figures in pocket), 8 plates.

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## Miscellaneous Reports

78-5 **No charge.**

**Environmental Aspects of Oil and Gas Production in Saskatchewan.** By M.J. Denner 27 pages, 1 table, 8 figures, 6 plates.

78-7 $5.00

**Mineral Statistics Yearbook, 1977.** 58 pages. Contains statistics pertaining to mineral production and disposition, value of production and Crown land disposition for all minerals. A summary of drilling statistics on a monthly, annual and all-time basis is also included.

78-8 **No charge.**

**Saskatchewan Coal Policy.** 33 pages. Outlined are various policy elements under the general objectives of: security of energy supply, environmental protection, coal research and development, economic and social benefits. Description of administrative procedures on the Crown coal rights disposition system and mine licencing policy.

**78-10** **$15.00**

**Summary of Investigations 1978.** Edited by J.E. Christopher and R. Macdonald. 33 articles in 171 pages of text including figures, tables and references; 15 preliminary monochrome maps and one polychrome index map. Text and maps in one container. Ozalid (blueline or blackline) copies of individual monochrome maps are also available separately at $1.00 per map. Maps (printed) in container:

(1) **Laird Lake (West).** 63-M-14-W. 1:50,000. Geology. B.P. Scott.

(2) **Jan Lake Area.** 63-L-14,-15 & 63-M-2,-3 (parts). 1:50,000. Re-investigation geology. R. Macdonald and R.R. MacQuarrie.

(3 & 4) **Wollaston Lake.** (2 sheets). 64-L (part). 1:100,000. Reconnaissance geology. G.E. Ray.

(5 & 6) **Stony Rapids.** (2 sheets). 74-P (part). 1:100,000. Reconnaissance geology. C.F. Gilboy.

(7) **Quaternary Geology of the Precambrian Shield, Saskatchewan.** 1:1,000,000. B.T. Schreiner.

(8) **Rabbit Lake.** 64-L-4 (part). 1:600. Uranium metallogenic study - geological cross section. T.I.I. Sibbald.

(9) **Charlebois Lake Area.** 74-P-7 (part). 1:20,000. Uranium metallogenic study - geology. D. Thomas.

(10) **Cup Lake Area.** 74-B-2 (part). 1:20,000. Uranium metallogenic study - geology. D. Thomas.

(11) **Maurice Bay Area.** 74-N-5,-12 (parts). 1:50,000. Uranium metallogenic study - geology. C.T. Harper.

(12) **Duddridge-Meyers Lakes Area.** 73-O-9,-16 & 73-P-12,-13 (parts). 1:50,000. Wollaston Belt base metals project. Geology. W. Coombe and D. Potter.

(13) **Athabasca Formation (Southwestern edge).** 74-F,-K (parts). 1:250,000. Reconnaissance geology. P. Ramaekers.

(14) **Interior Athabasca Basin (Northern Saskatchewan).** 1:1,000,000. Reconnaissance geology. P. Ramaekers.

(15) **Potential Peat Areas of Saskatchewan.** 1:1,267,200. R. Troyer.

(16) **Precambrian Mapping Index.** 1978 edition. 1:1,267,200.

**79-1** **No charge.**

**Saskatchewan Energy Flow Accounts - Revision and Update.** Outlines all sources and end uses of every major type of commercial energy produced or consumed in Saskatchewan in 1976 and 1977. Commodities covered are crude oil, natural gas, coal, hydro, uranium, electricity and seven types of refined petroleum products. Production, exports, imports, inventory changes, conversion losses and consumption by 10 types of provincial energy consumers are outlined in standard units, British Thermal Units and dollar units. (See also Misc. Rep. 80-8).

79-2 $5.00
**Index to Non-confidential Drill Holes in the Athabasca Formation - Excluding Development Drilling.** By Anne Fuzesy and Richard Young. 54 pages. To April 1, 1979. Listed are company, disposition, D.M.R. file no., hole no., size, angle, bearing, depth, location, latitude, longitude, elevation, casing, formation tops, subsea depths, thickness, core, date.

79-3 $3.00
**Index to Assessment Work in the Reindeer Mining District of Saskatchewan.** By Anne Fuzesy. 168 pages.

79-4 $3.00
**Index to Assessment Work in the La Ronge Mining District of Saskatchewan.** By Anne Fuzesy. 186 pages.

79-5 $3.00
**Index to Assessment Work in the Athabasca Mining District of Saskatchewan.** By Anne Fuzesy. 201 pages.

79-6 $30.00
**Reservoir Performance Charts.** Contains graphs of data from pools and units such as: gas-oil and water-oil ratios, pressure data, production and injection histories and number of producing wells.

79-7 No charge.
**Uranium Reserves and Potential of Northern Saskatchewan.** By M.J. Denner and P.L. Reeves.

79-8 $35.00
**Reservoir Annual, 1978.** Contains oil and gas reserves data, development and production data, information concerning enhanced recovery projects and related reservoir information.

79-9 $10.00
**Mineral Statistics Yearbook, 1978** 59 pages. Contains statistics pertaining to mineral production and disposition, value of production and Crown land disposition for all minerals. A summary of drilling statistics on a monthly, annual and all-time basis is also included.

79-10 $15.00
**Summary of Investigations. 1979.** Edited by J.E. Christopher and R. Macdonald. 39 articles in 227 pages of text, including figures, tables and references; 14 preliminary monochrome maps and one polychrome index map. Text and maps in one container. Ozalid (blueline or blackline) copies of individual maps also available separately at $1.00 per map. Maps (printed) in container:

(1) **Phelps Lake.** 64-M-S.E. 1:100,000. Reconnaissance geology. J.F. Lewry.

(2) **Stony Rapids (North).** 74-P (part). 1:100,000. Reconnaissance geology. C.F. Gilboy.

(3) **Wollaston Lake (East).** 64-L (part). 1:100,000. Reconnaissance geology. G.E. Ray.

(4) **Birch Portage (South).** 63-L-15 (part). 1:50,000. Re-investigation geology. R.R. McQuarrie.

(79-10 continued from previous page)

(5) **Reindeer Lake South.** 64-D. 1:250,000. Precambrian compilation geology. W.G.Q. Johnston.

(6) **Quaternary Geology of the Canadian Shield, Saskatchewan.** 1:1,000,000. B.T. Schreiner.

(7) **Upper Clearwater River.** 74-F (part). 1:100,000. Reconnaissance geology. B.P. Scott.

(8) Uranium metallogenic studies (three maps on one sheet). D. Thomas.
**Karin Lake.** 74-A-14 (part). 1:40,000.
**Pipewrench Lake.** 74-A-5 (part). 1:20,000.
**Pluto Bay.** 74-P-6 (part). 1:20,000.

(9) **Maurice Bay Area.** 74-N-5, -12 (parts). 1:50,000. Uranium metallogenic study. C.T. Harper.

(10) **East Amisk Lake Area.** 63-K-12, 63-L-9,-16 (parts). 1:50,000. Flin Flon base metals project. F. McDougall.

(11) **Airborne Radiometric Map of the Precambrian Shield, Saskatchewan.** (URP compilation). 1:1,267,200. H. Stolz.

(12) **Douglas - Wekach Lakes.** 63-K-12 (part). 1:10,000. Flin Flon gold prospects. J.G. Pearson.

(13) **Stratigraphy of the Athabasca Basin.** 1:1,000,000. P. Ramaekers.

(14) **Sections Through the Athabasca Basin.** 1:1,000,000 (horizontal), 1:10,000 (vertical). P. Ramaekers.

(15) **Precambrian Mapping Index.** 1979 edition. 1:1,267,200.

**79-11** **No charge.**
**Mineral Resources of Saskatchewan.** By M.J. Denner and P.L. Reeves. 30 pages, 11 tables, 8 figures.

**80-8** **No charge.**
**Saskatchewan Energy Flow Accounts - Revision and Update.** Covers 1978. (See Misc. Rep. 79-1 for description of contents).

## Open File

**OF 79-2** **$56.00**
**Assessment of the Technical and Economic Feasibility of Peat Resource Development in Northern Saskatchewan Communities.** By Saskmont Engineering. 140 pages, 18 tables, 56 figures, 8 maps.

## Petroleum and Natural Gas

**Monthly Oil and Gas Production Report.** $60.00 per year. (Formerly Monthly Oil and Gas Report). Lists by area, unit and pool the monthly production of oil, gas and water. Cumulative production figures for the current year are also included.

**Drilling Activity Report.** $60.00 per year. (Formerly Weekly Drilling and Land Report). A monthly report which lists by area the well licences issued, wells finished drilling, well completions, well abandonments and wells brought on production.

**Schedule of Wells**

The Department of Mineral Resources has placed its entire series of oil and gas well schedules on microfiche and microfilm cassettes. Basic geological and engineering data on every well drilled in Saskatchewan from 1874 to the end of 1973 is availabe in two forms: as 38 microfiche (207 frames or pages) or as two microfilm cassettes. Microfilm cassettes may be purchased either comicmode (laterally, side by side) or cinemode (vertically, end to end). Reels may be substituted for cassettes.

This historical series, **1874-1973 Schedule of Wells**, may be purchased from the Publications Office for $150.00; please specify form - microfiche, cinemode cassette or reel, comicmode cassette or reel. Annual supplements on microfilm (price $10.00) are available for the years of 1973-74; 1974-75; 1975-76 and 1976-77. Further details on the Schedule of Wells are available on request.

**Crude Oil and Natural Gas Production Statistics**

**Historical Production - Magnetic Tape**

Historical production data for oil and gas wells is available on magnetic tape. This tape contains production data starting from 1935 up to and including the most current month.

This tape is available on a rental basis at the following rates:

Monthly subscription $720 per year

Quarterly subscription $400 per year

This tape is also available on a special request basis at a cost of $100 per tape.

Historical production data for oil and gas wells can also be obtained on microfiche or microfilm or by retrieval of specific data from computerized magnetic files. Further details will be provided depending on individual requests.

**Production Master Well Index - Microfiche**

This index lists all wells, active and inactive, by location. It also lists horizon pools, operator codes, well name, physical (reporting) battery code and department battery code. The index is available in microfiche at $600 for 4 quarterly sets or $200 for an annual set.

**Individual Well Retrievals**

Historical production data for individual wells is available on request. The rate is $10.00 per request plus $2.00 per well requested.

## Maps

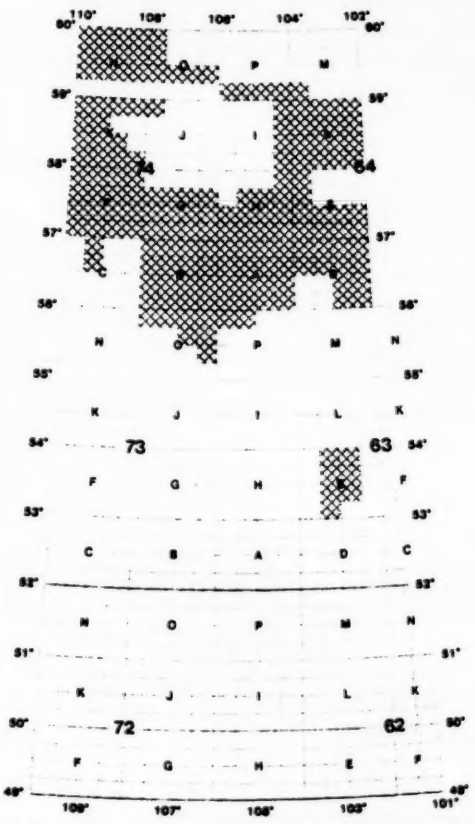
**Mineral Map of Saskatchewan**
This coloured map shows the extent of the areas of commercial deposits of potash, oil (differentiated into light, medium and heavy areas), natural gas and coal. All producing mines and mines under development are shown together with the names of the mining companies and the pertinent minerals. Also included are mineral deposits of sufficient extent to qualify as potential future mines. Available in two sizes:

Large, scale approximately
1:1,200,000 (one inch equals 20 miles) size approximately
95 x 112 cm (37 x 44 inches)
$5.00

Small, scale approximately
1:3,400,000 (one inch equals 5.5 miles) size approximately
28 x 43 cm (11 x 17 inches)
$2.00

**Mineral Disposition Maps**
1:50,000 $1.00 each
Drawn by National Topographic System areas. Please quote N.T.S. Number(s) of map(s) required.

This new series of maps are part of the national metric program and as such, they supersede the 1:31,680 and 1:36,000 series of Mineral Disposition Maps. The figure shows the coverage available at the time of printing, but as this series is presently being enlarged and as new areas are mapped at this scale, those areas previously mapped at the 1:31,680 and 1:36,000 scales will be phased out and superseded by the 1:50,000 scale maps as these become available and orders will be filled accordingly.




**1:50,000 Mineral Disposition Maps**

Areas mapped

Upon request blank copies (no dispositions shown) of these maps are available as follows:

1/ Ozalid paper copies, blueline (blackline supplied if specifically requested) .....$1.00 each.

2/ Ozalid sepialine mylar copies with matte drawing surface .....$7.00 each.

3/ Blackline cronaflex copies, clear, true scale..$24.00 each.

4/ Blackline cronaflex copies, matte drawing surface, true scale.....$25.00 each.

**Mineral Development Map of Southern Saskatchewan,** December 31, 1979. Designated oil and gas pools and pipelines, oil refineries, gas conservation plants, well spacing areas, commercial potash areas, potash mines, sodium sulphate deposits and plants, salt plants, helium plants. Available in two sizes:

Small: 28 x 38 cm. Scale: 1:2,534,400 .....$2.00

Large: 70 x 97 cm. Scale: 1:1,000,000 .....$5.00

**K-86** **$7.00**

**Tatagwa Area Structure Contour Map.** Scale: 1:50,000. Area: Townships 5 & 6, Ranges 15 & 16, West of the Second Meridian. Horizon mapped: Midale Beds. Pools on sheet: West part of the Lougheed Midale Beds Pool. Contour interval: 10m. Subsea depths in metres are shown at each control point.

This map is updated as information becomes available and due to the necessity for frequent revisions, is sold as prints of a working drawing only.

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## Annual Reports, Regulations

**Department of Mineral Resources Annual Report 1977-78.** No charge.

**Department of Mineral Resources Annual Report 1978-79.** No charge.

**The Freehold Coal Tax Regulations, 1979.** No charge

## Reprints

Broughton, P.L., F. Simpson and S.H. Whitaker. **Late Cretaceous Coprolites from Western Canada.** Published in Palaeontology, May, 1978, Vol. 21, Part 2, pages 443-453. No charge.

Harper, Charles T. **The Geology of the Cluff Lake Uranium Deposits.** Published in The Canadian Mining and Metallurgical Bulletin, Dec., 1978. No charge.

Kendall, Alan C. **Facies Model 11. Continental and Supratidal (Sabkha) Evaporites.** Published in Geoscience Canada, June 1978, Vol. 5, No. 2, pp. 66 - 78. No charge.